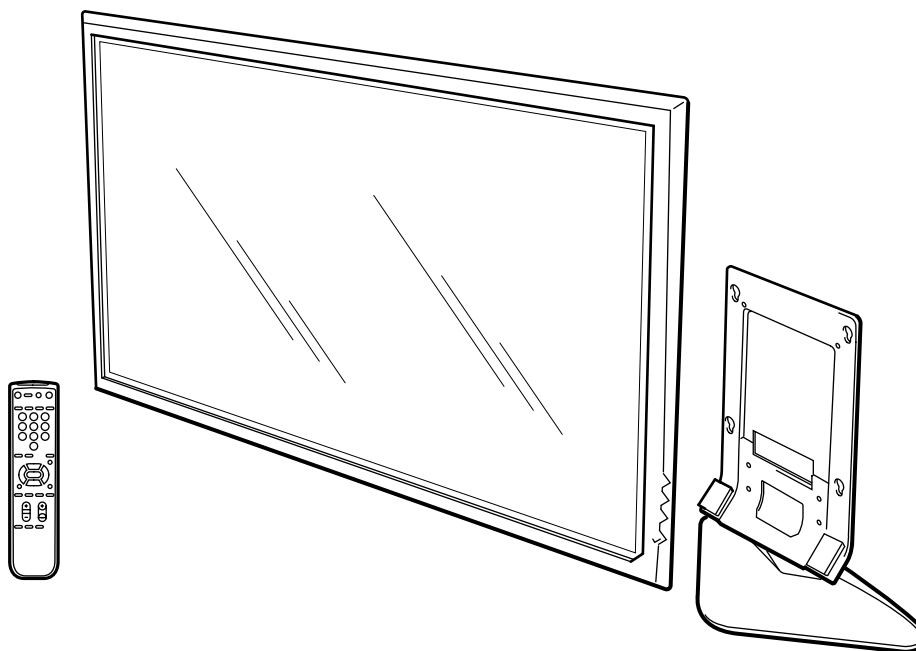


SERVICE MANUAL

MODEL	DEST.	CHASSIS NO.	MODEL	DEST.	CHASSIS NO.
PFM-50C1	WORLD		SU-P50C	WORLD	
PFM-50C1E	WORLD		RM-971	WORLD	



PFM-50C1/50C1E FLAT PANEL DISPLAY
SU-P50C FLAT PANEL DISPLAY STAND
RM-971 REMOTE COMMANDER

FLAT PANEL DISPLAY

SONY[®]

警告

このマニュアルは、サービス専用です。
お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、人身事故につながる可能性があります。
危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegebenen Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

AVERTISSEMENT

Ce manuel est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the manufacturer.
Dispose of used batteries according to the manufacturer's instructions.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer.

Dispose of used batteries according to the manufacturer's instructions.

ADVARSEL

Lithiumbatteri - Eksplosjonsfare.

Ved utskifting benyttes kun batteri som anbefalt av apparatfabrikanten.

Brukt batteri returneres apparatleverandøren.

Vorsicht!

Explosionsgefahr bei unsachgemäßem Austausch der Batterie.

Ersatz nur durch denselben oder einen vom Hersteller empfohlenen ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

VARNING

Explosionsfara vid felaktigt batteribyte.

Använd samma batterityp eller en likvärdig typ som rekommenderas av apparattillverkaren.

Kassera använt batteri enligt gällande föreskrifter.

ATTENTION

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie.

Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.

Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

VAROITUS

Paristo voi räjähtää jos se on virheellisesti asennettu.

Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.

Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

ADVARSEL!

Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.

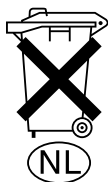
Udskiftning må kun ske med batteri af samme fabrikat og type.

Levér det brugte batteri tilbage til leverandøren.

For the customers in the Netherlands
Voor de klanten in Nederland

Hoe u de batterijen moet verwijderen, leest u in de tekst van deze handleiding.

Gooi de batterij niet weg maar lever deze in als klein chemisch afval (KCA).



Für Kunden in Deutschland

Entsorgungshinweis: Bitte werfen Sie nur entladene Batterien in die Sammelboxen beim Handel oder den Kommunen. Entladen sind Batterien in der Regel dann, wenn das Gerät abschaltet und signalisiert "Batterie leer" oder nach längerer Gebrauchsdauer der Batterien "nicht mehr einwandfrei funktioniert". Um sicherzugehen, kleben Sie die Batteriepole z.B. mit einem Klebestreifen ab oder geben Sie die Batterien einzeln in einen Plastikbeutel.

For the customers in the U.S.A. and Canada

RECYCLING LITHIUM-ION BATTERIES

Lithium-Ion batteries are recyclable. You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.



For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit <http://www.rerc.org/>

Caution: Do not handle damaged or leaking Lithium-Ion batteries.

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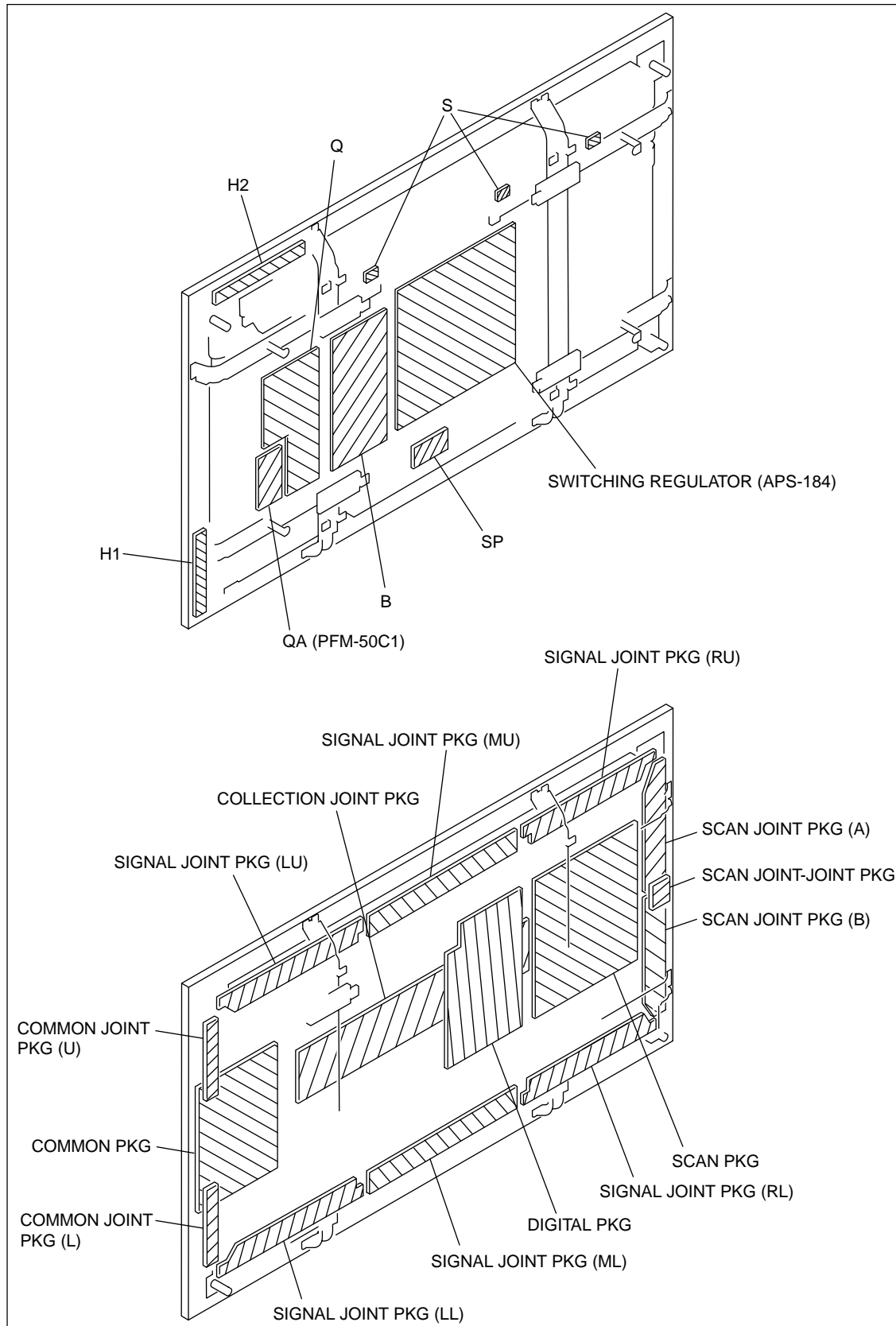
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Section 1

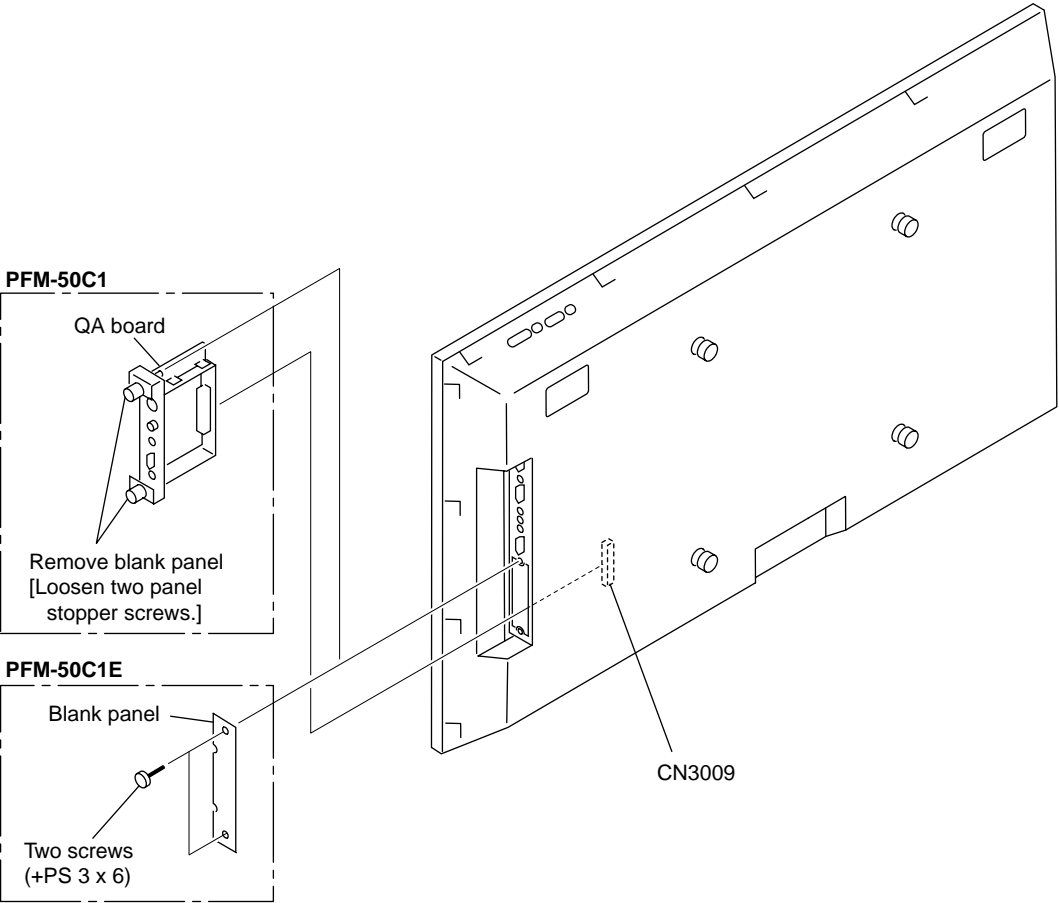
Service Information

1-1. Board Layout

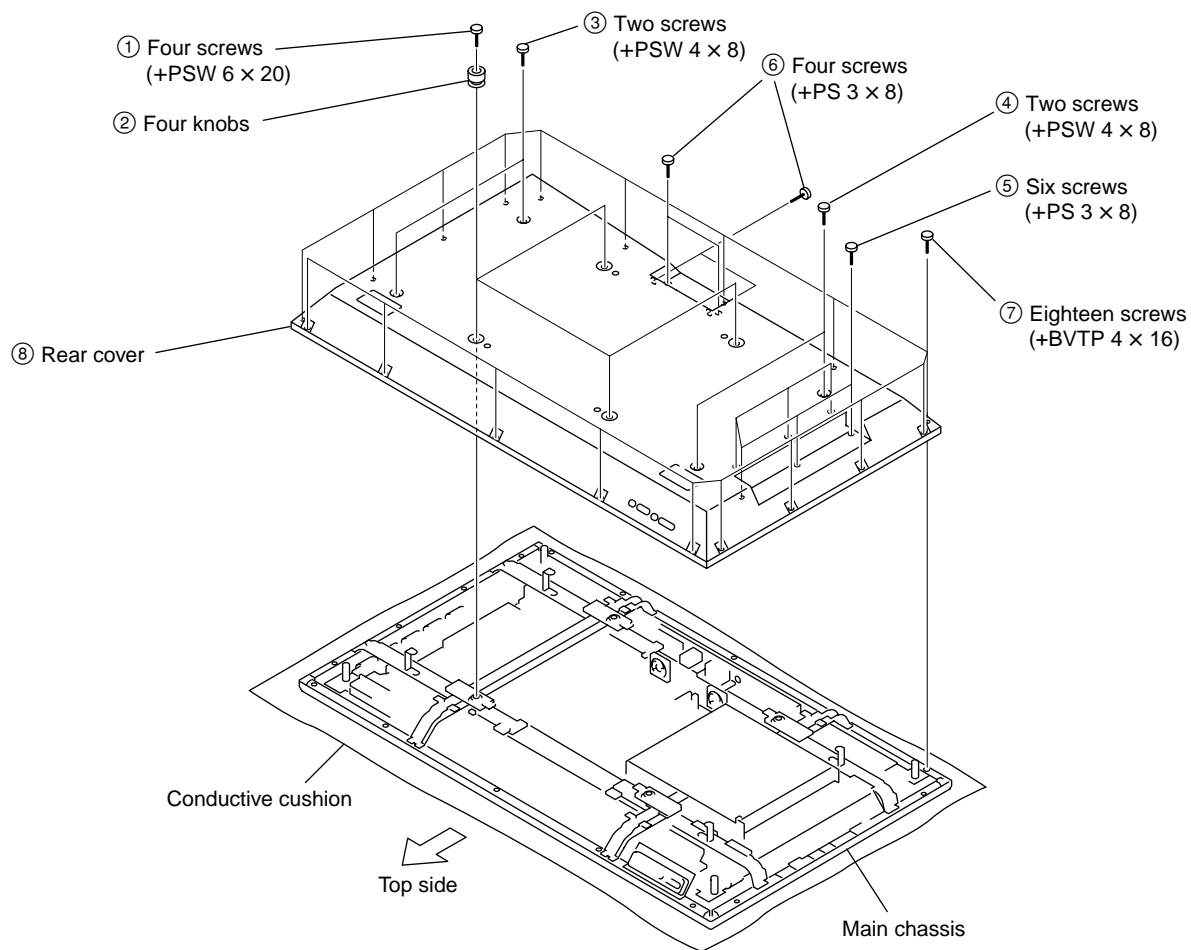


1-2. Disassembly

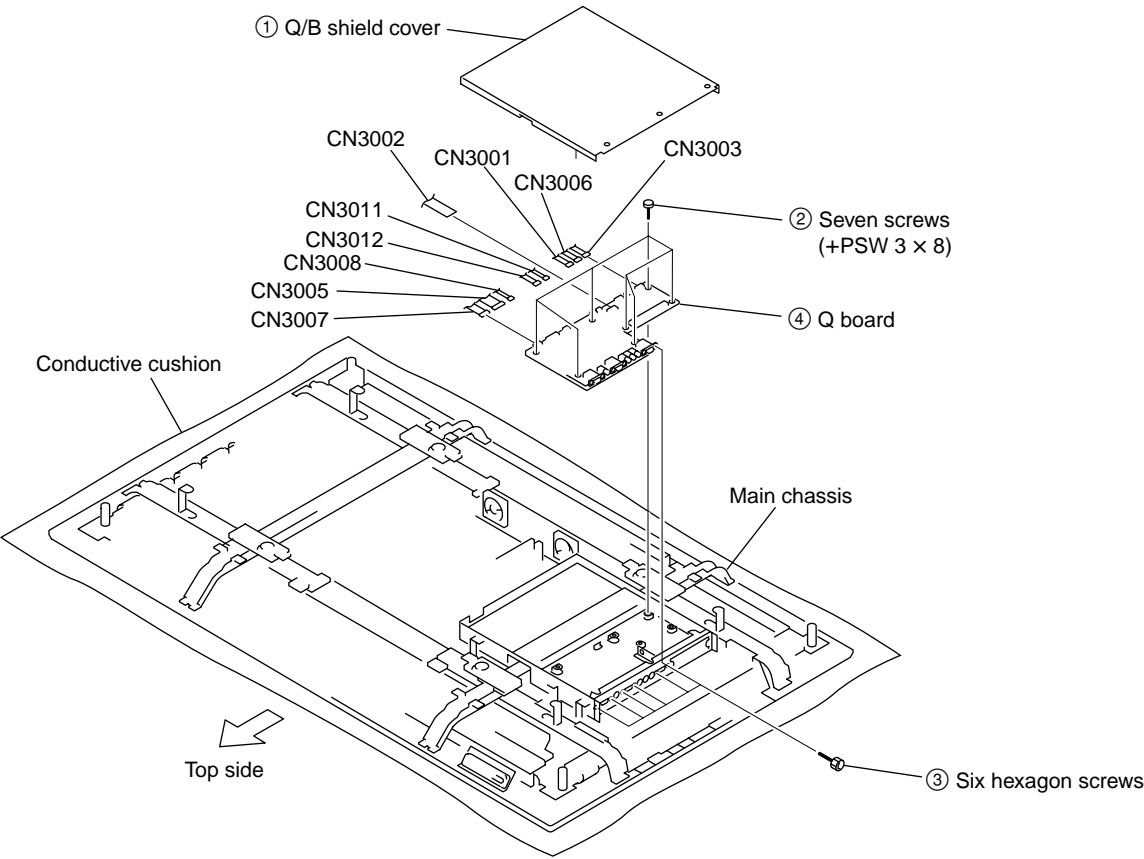
1-2-1. QA Board Removal



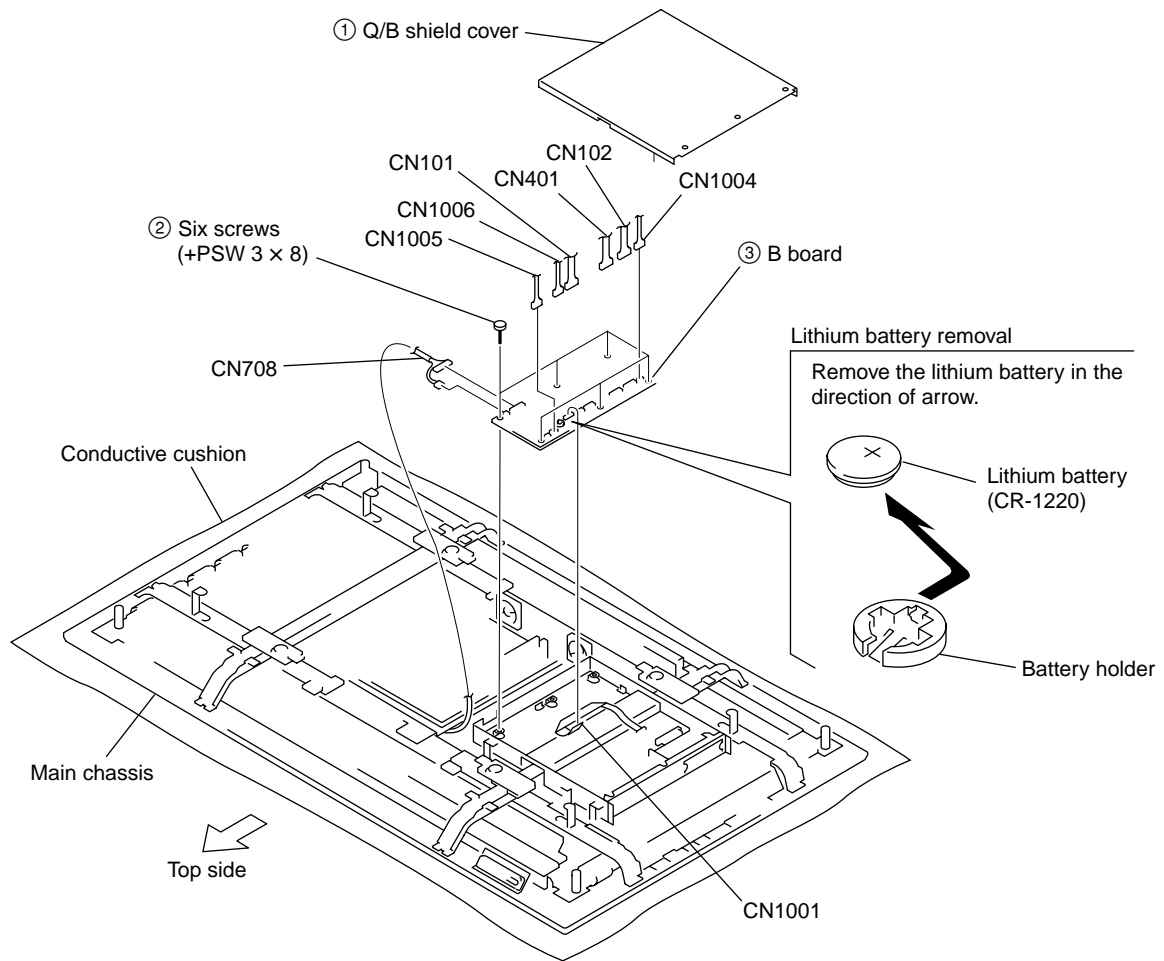
1-2-2. Rear Cover Removal



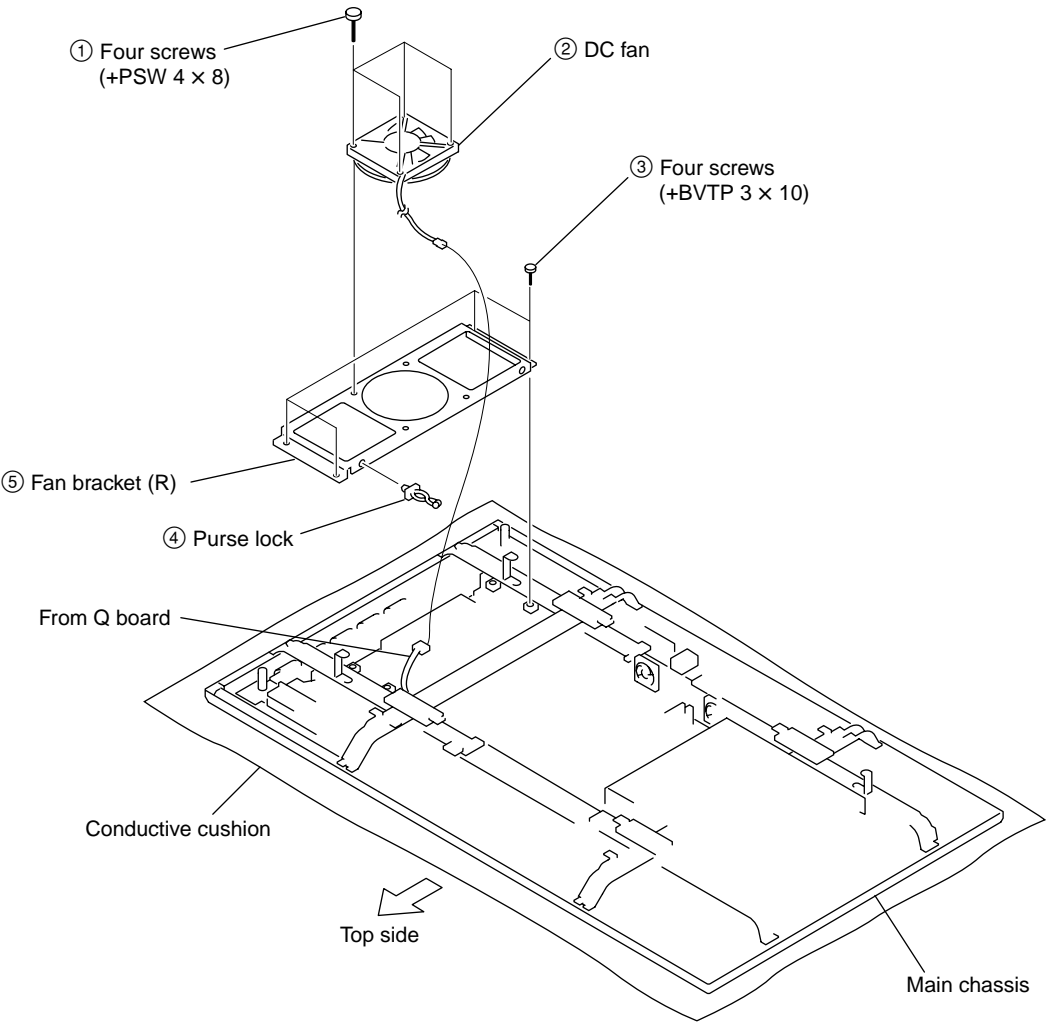
1-2-3. Q Board Removal



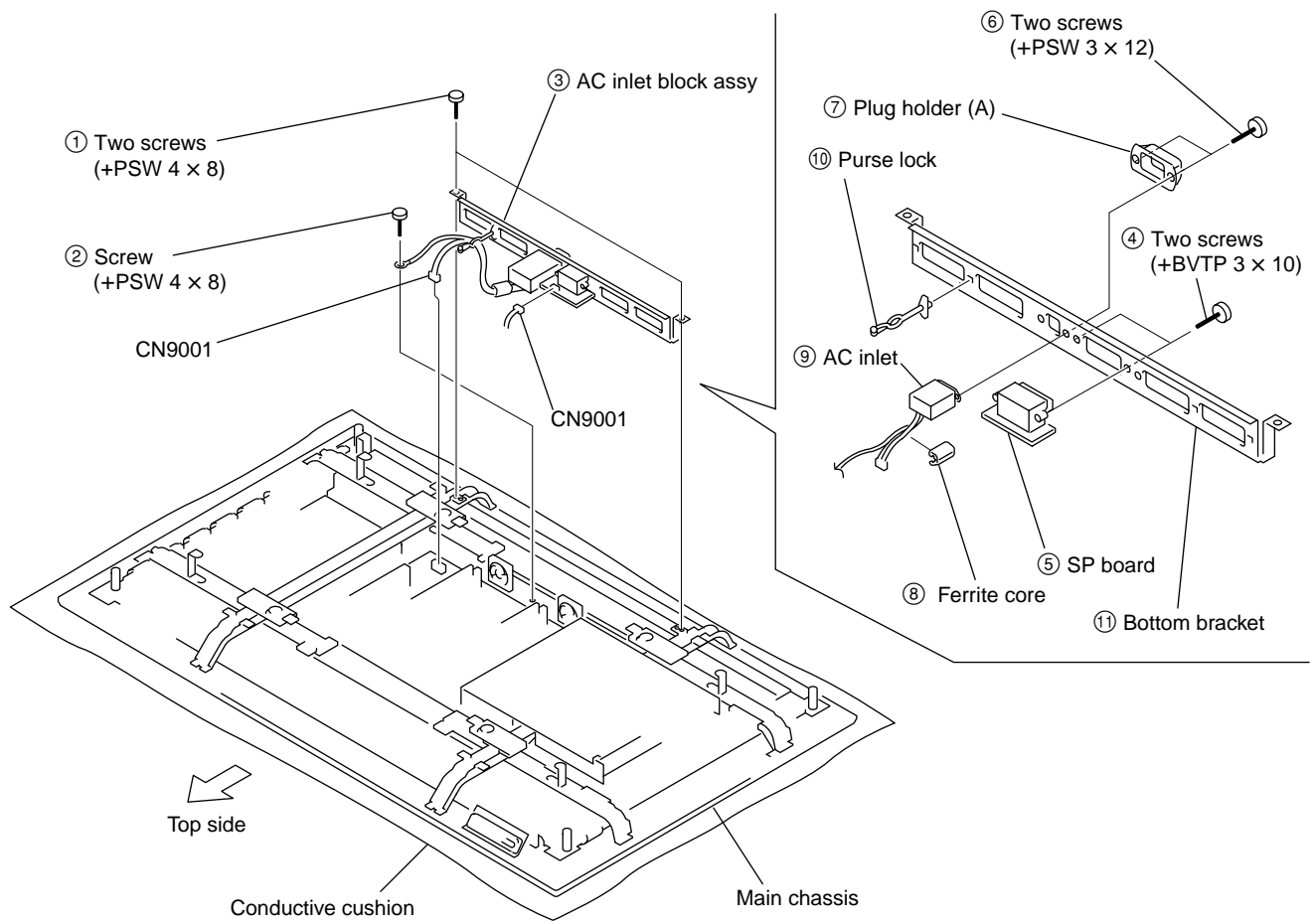
1-2-4. B Board Removal



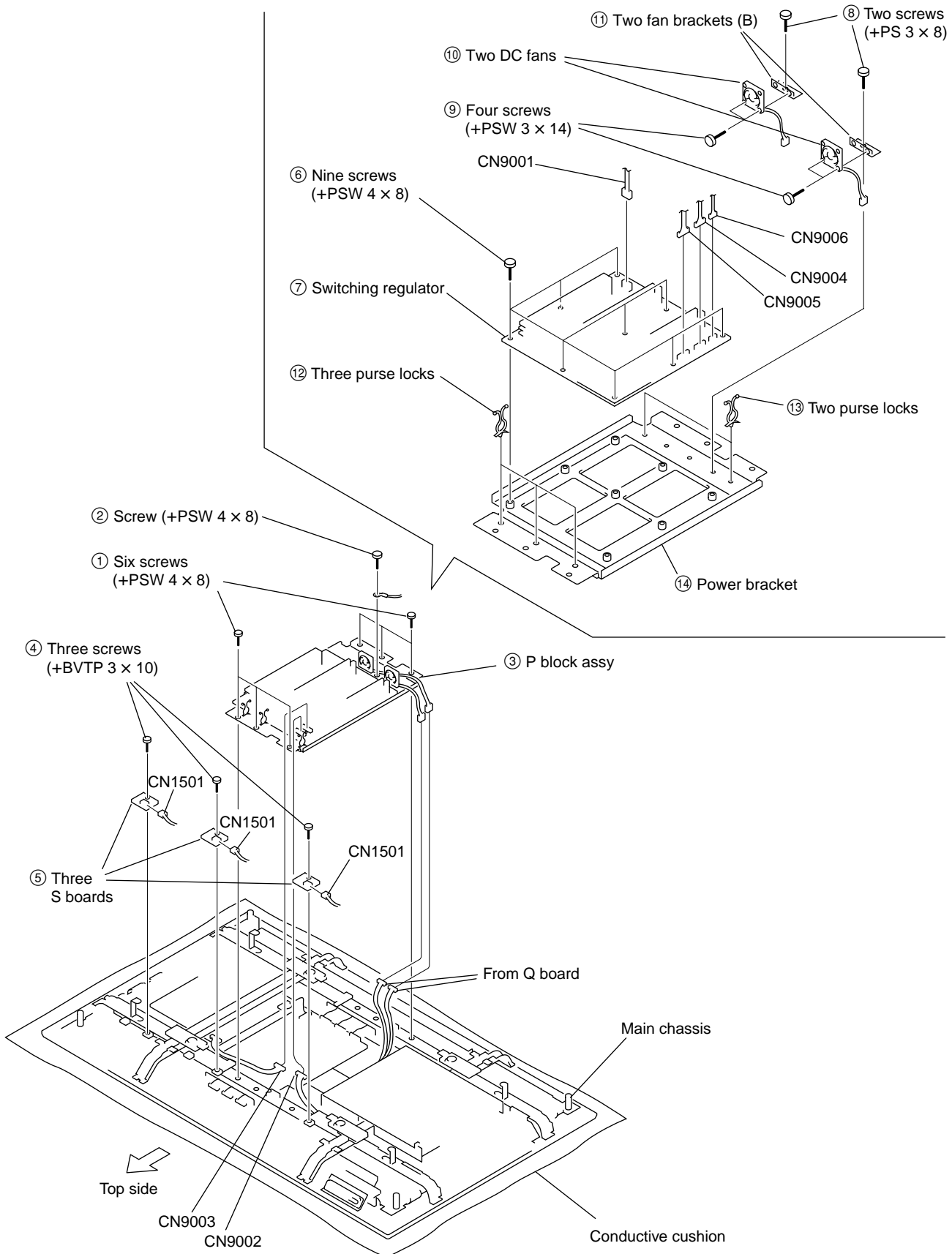
1-2-5. DC Fan (R) Assy Removal



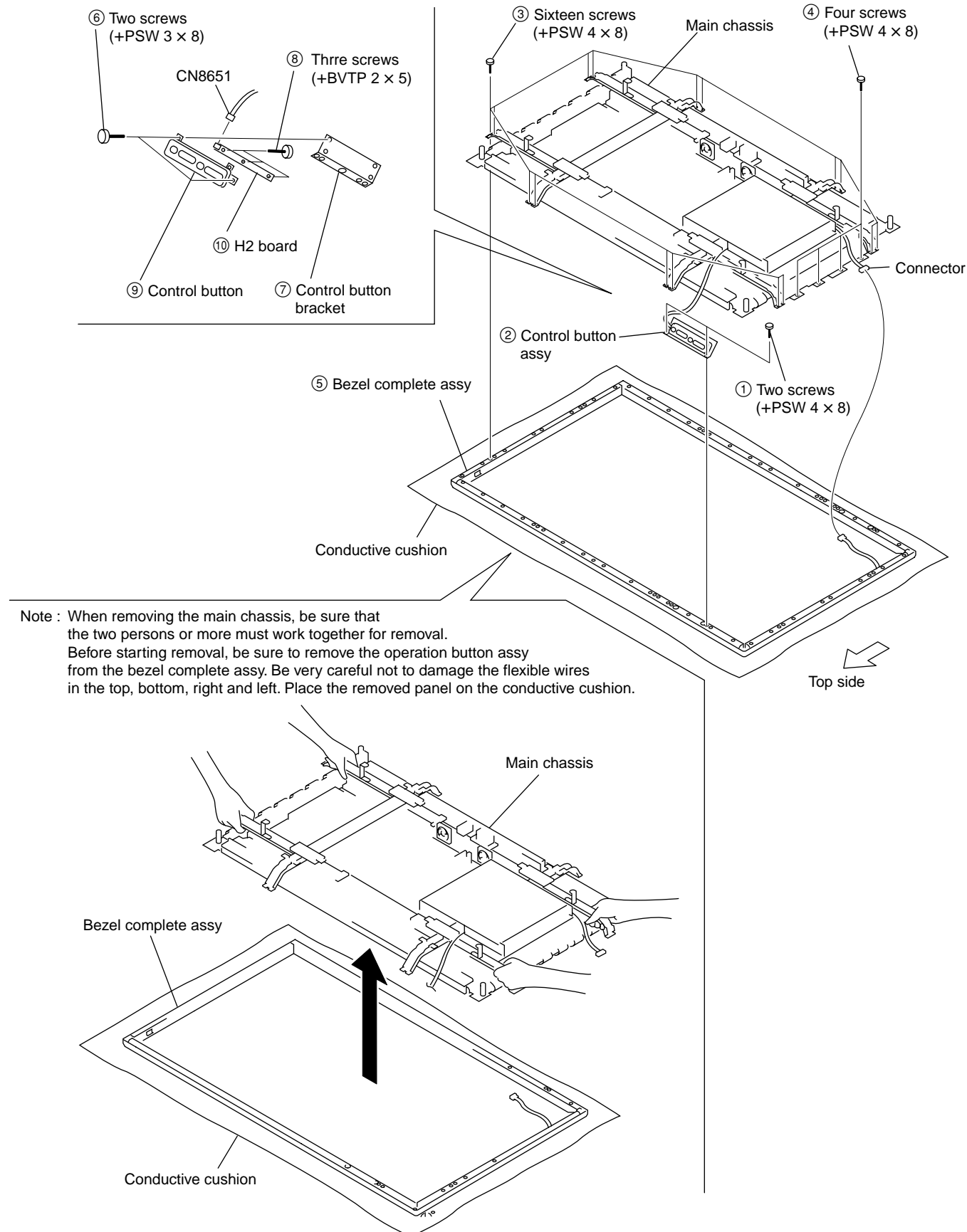
1-2-6. AC Inlet Block Assy and SP Board Removal



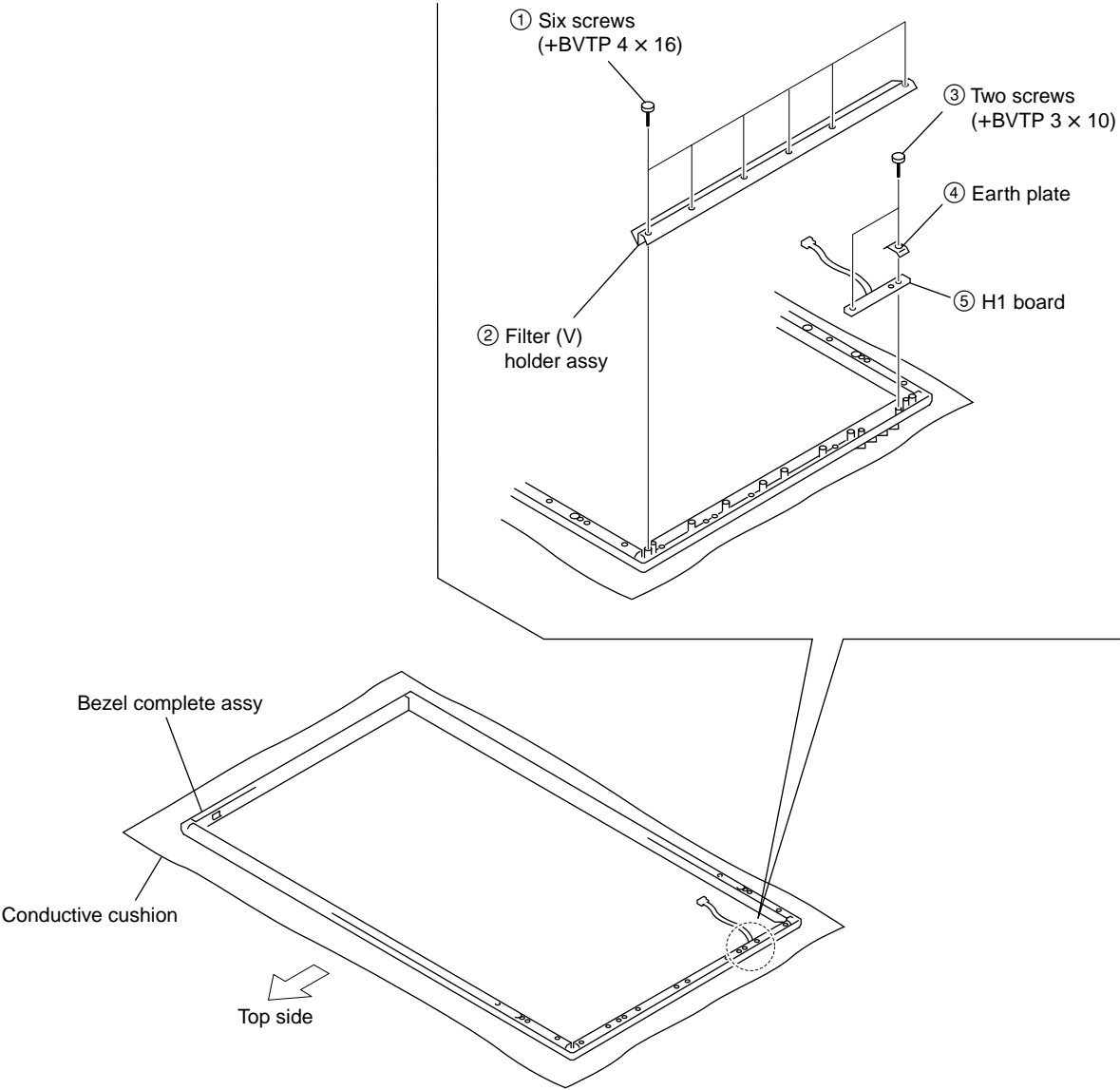
1-2-7. P Block Assy, S Board, Switching Regulator and DC Fan (B) Removal



1-2-8. Bezel Complete Assy Removal



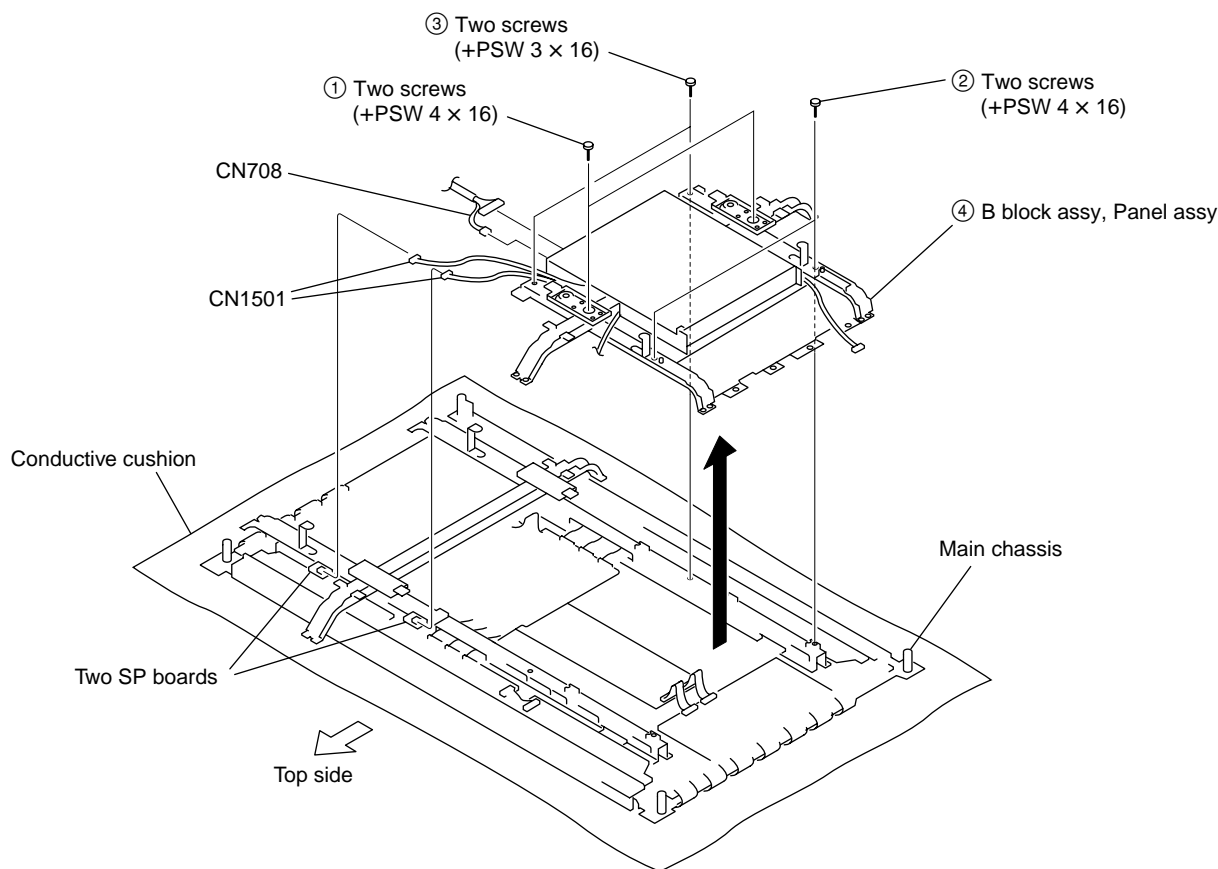
1-2-9. H1 Board Removal



1-2-10. B Block Assy and Panel Assy Removal

Note

To remove the B Block Assy and Panel Assy, remove the Bezel block assy, AC inlet block assy before-hand.

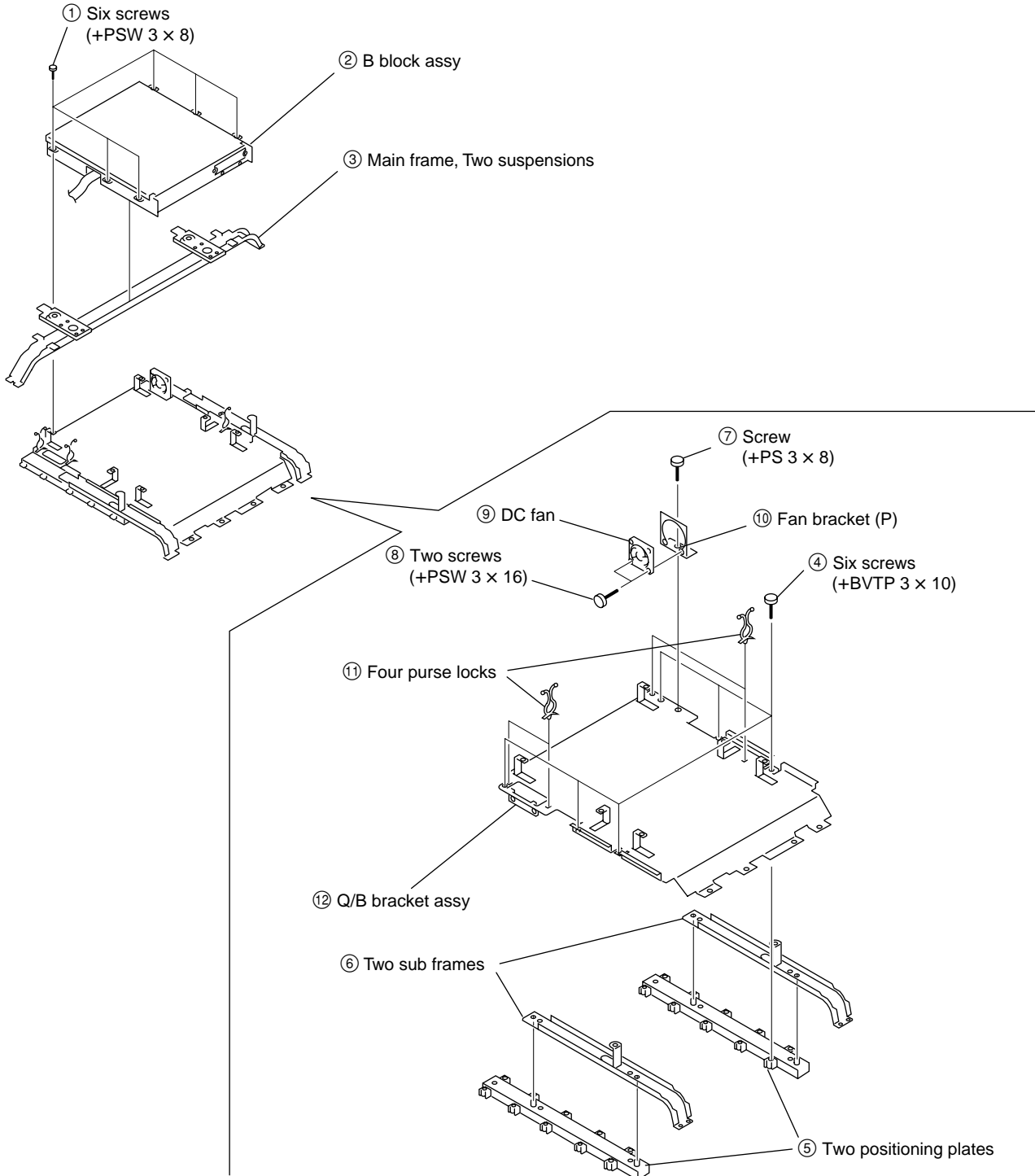


Note : To remove the B block assy and panel assy, remove it after the bezel assembly has already removed earlier. If not, it can result in distortion of bezel assembly and damage of optical filter. Before starting removal, be sure to remove the operation button assy from the bezel complete assy. Be very careful not to damage the flexible wires in the top, bottom, right and left. Place the removed panel on the conductive cushion.

1-2-11. Q/B Bracket Assy Removal

Note

To remove the Q/B bracket assy, remove the Bezel block assy, AC inlet block assy, B block assy beforehand.

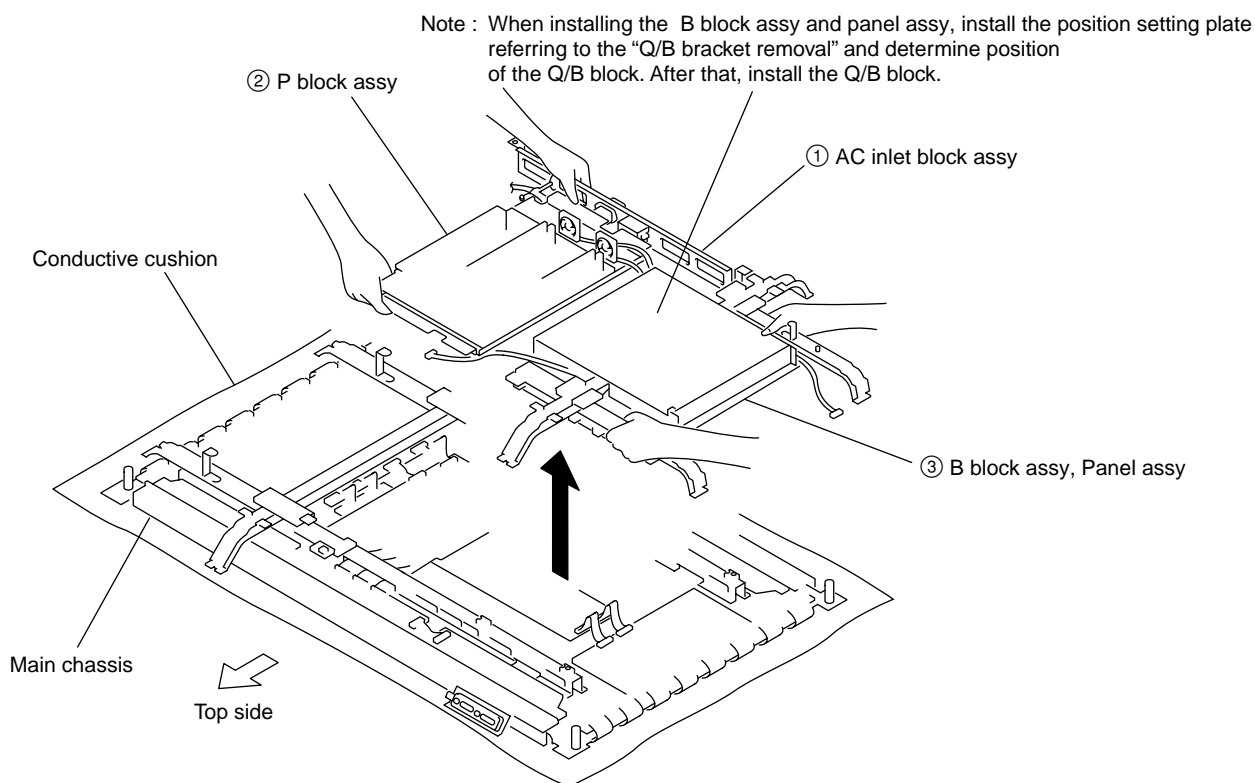


Note : To remove the Q/B bracket, remove it after the bezel assembly has already removed earlier. If not, it can result in distortion of bezel assembly and damage of optical filter. Before starting removal, be sure to remove the operation button assy from the bezel complete assy. Be very careful not to damage the flexible wires in the top, bottom, right and left. Place the removed panel on the conductive cushion.

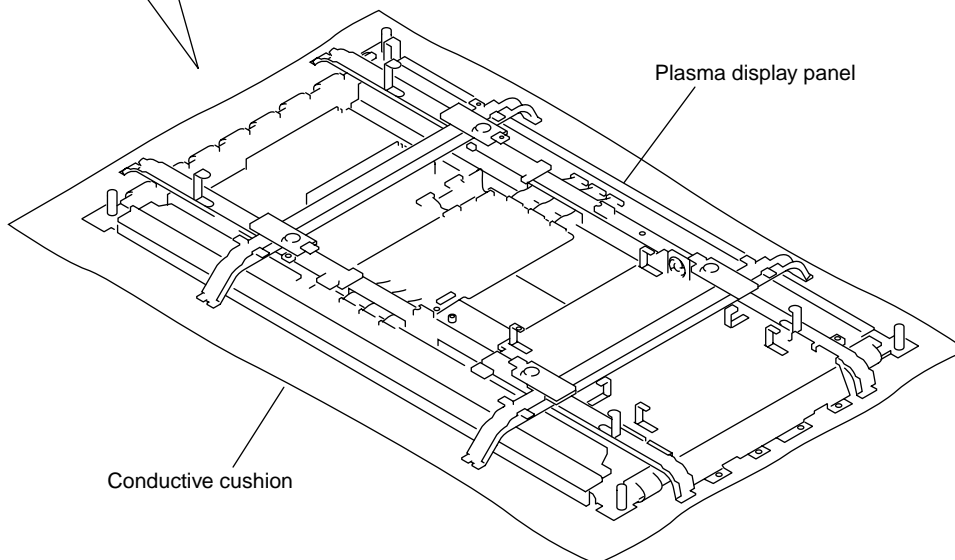
1-2-12. Plasma Display Panel Removal

Notes

- When removing the plasma display panel, remove the bezel assembly, AC inlet block assembly, P block assembly, B block assy and panel assy. Then remove the respective circuit boards that are attached to the panel.
- When removing the main chassis, be sure that the two persons or more must work together for removal.



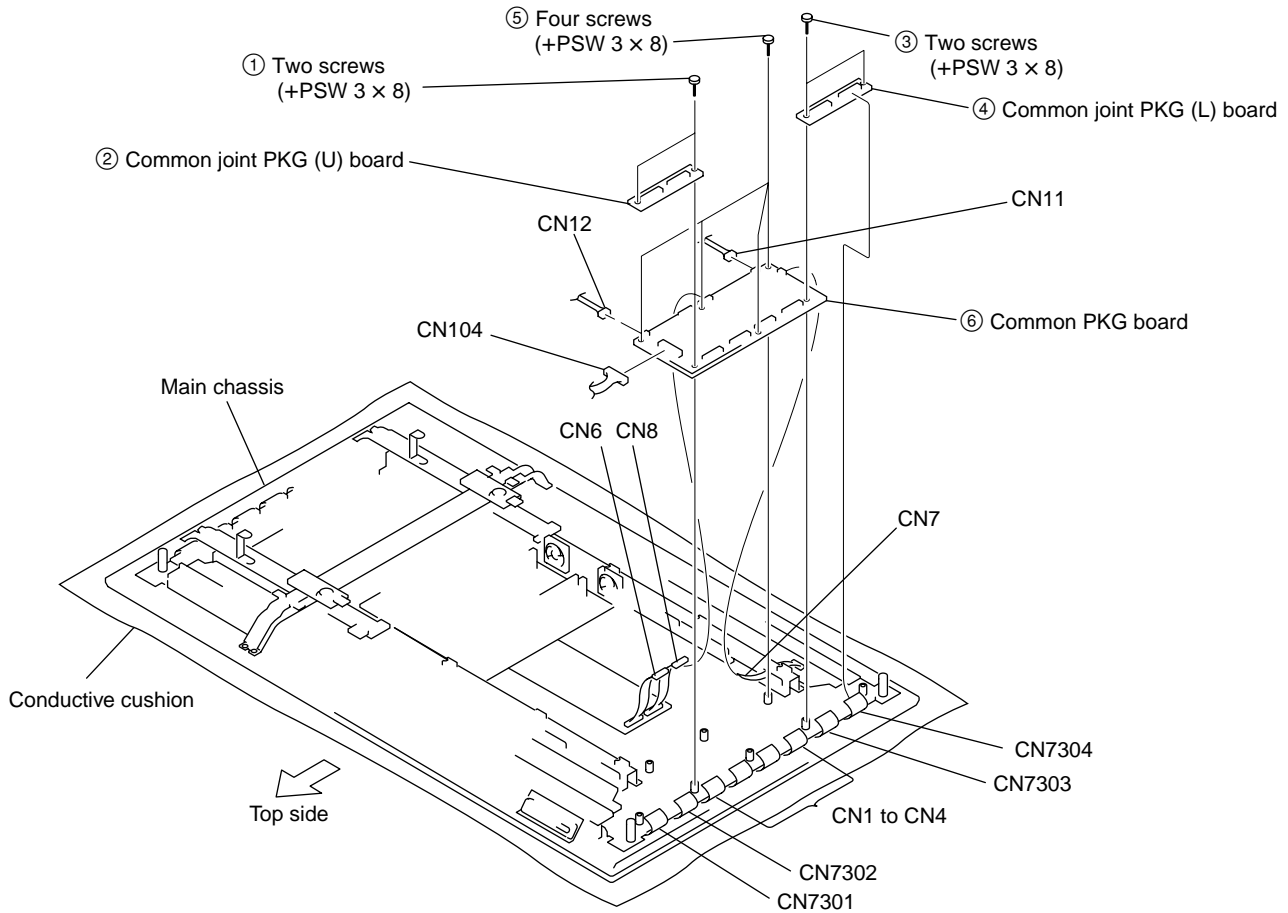
Note : To remove the plasma display panel, remove it after the bezel assembly has already removed earlier. If not, it can result in distortion of bezel assembly and damage of optical filter. Before starting removal, be sure to remove the operation button assy from the bezel complete assy. Be very careful not to damage the flexible wires in the top, bottom, right and left. Place the removed panel on the conductive cushion.



1-2-13. Common PKG Board Removal

Note

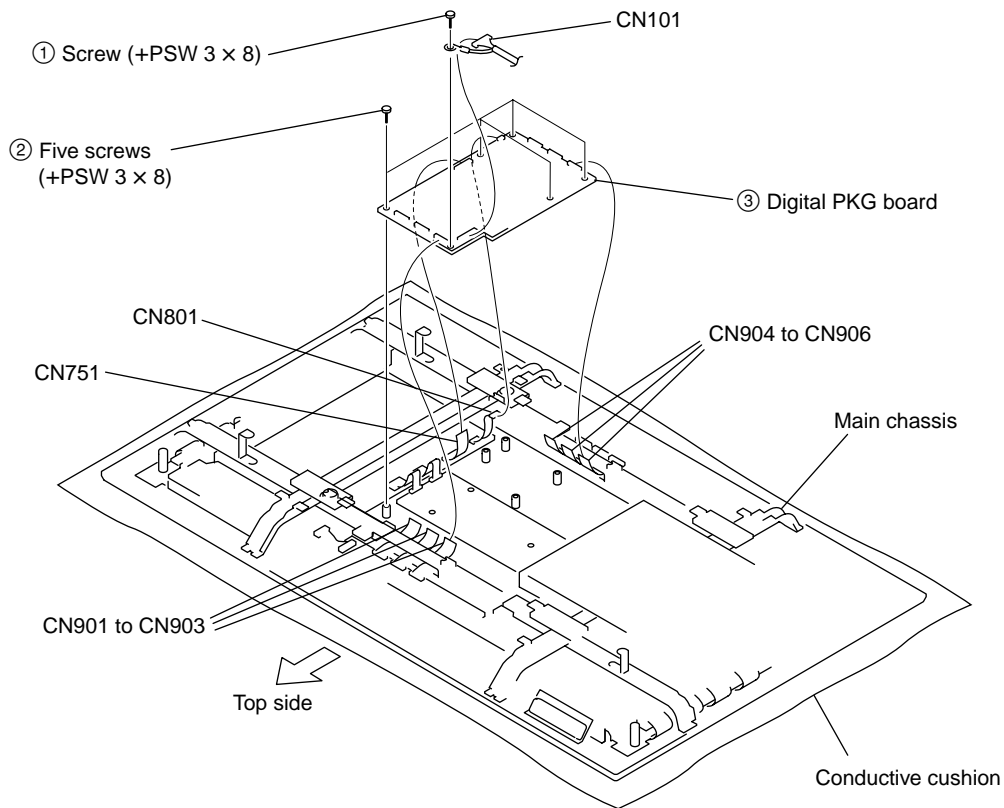
To remove the Common PKG board, remove the AC inlet block assy, B block assy and panel assy beforehand.



1-2-14. Digital PKG Board Removal

Note

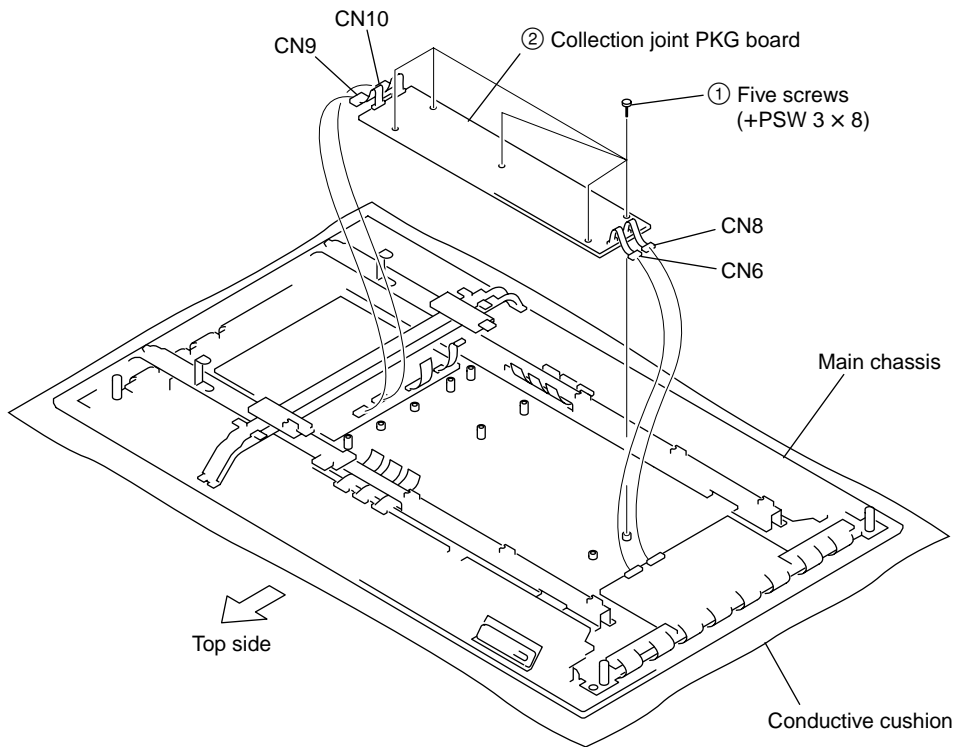
To remove the Digital PKG board, remove the P block assy beforehand.



1-2-15. Collection Joint PKG Board Removal

Note

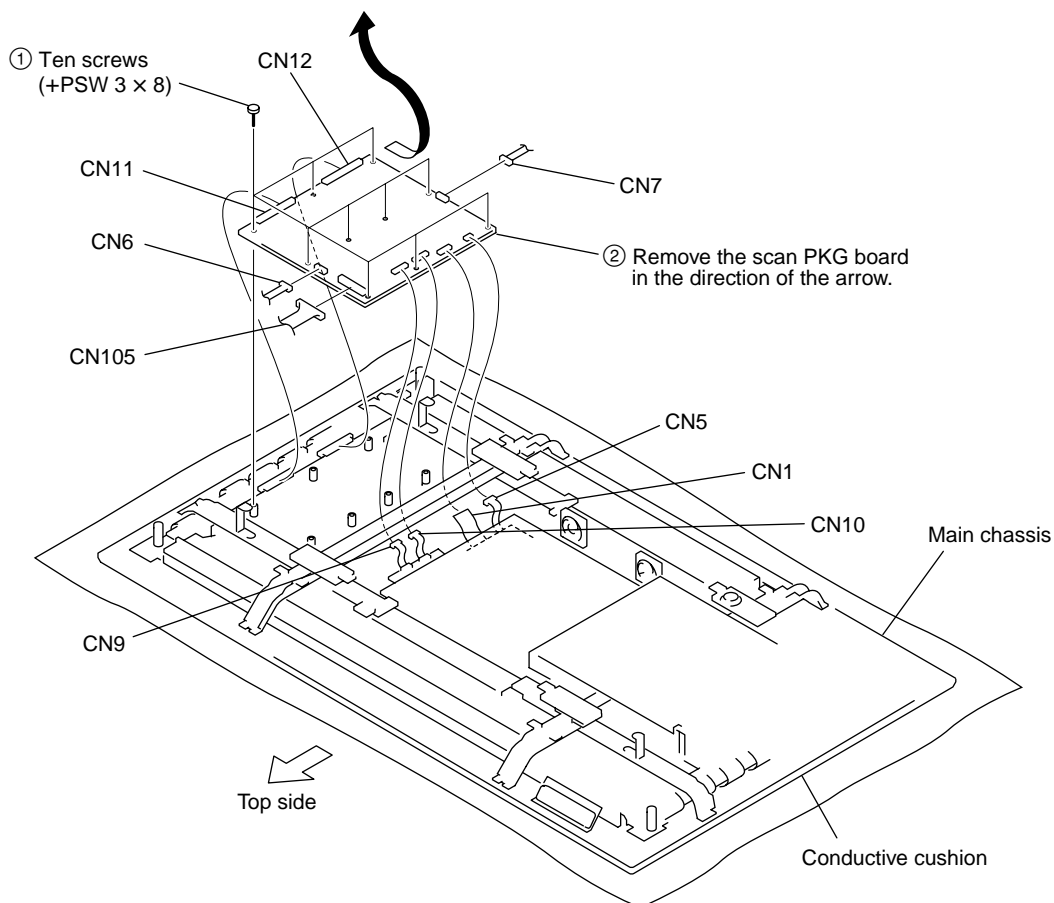
To remove the collection joint PKG board, remove the AC inlet block assy, B block assy, panel assy, P block and Digital PKG board beforehand.



1-2-16. Scan PKG Board Removal

Note

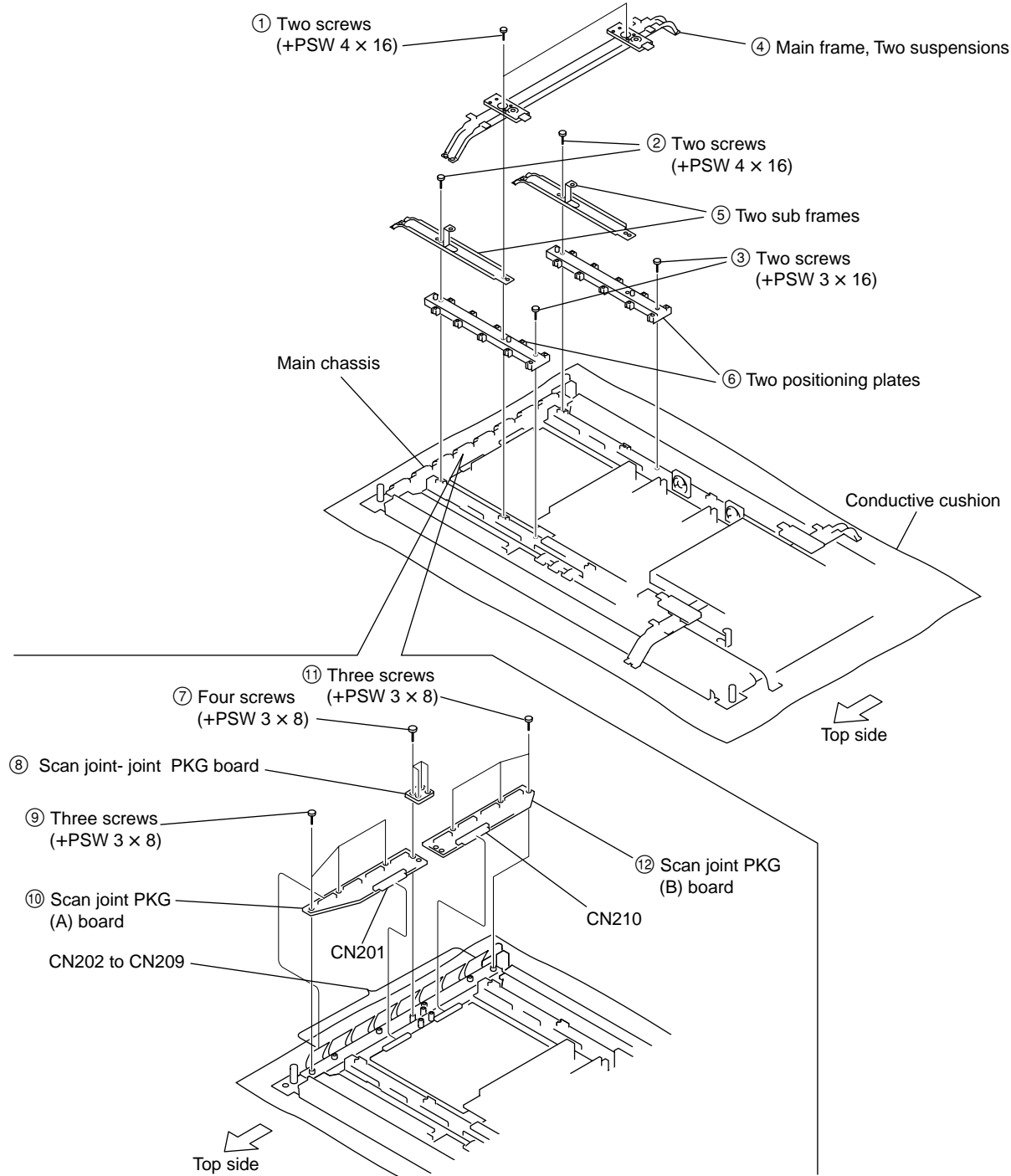
To remove the scan PKG board, remove the DC fan (R) assy beforehand.



1-2-17. Scan Joint PKG (A) and (B) Boards Removal

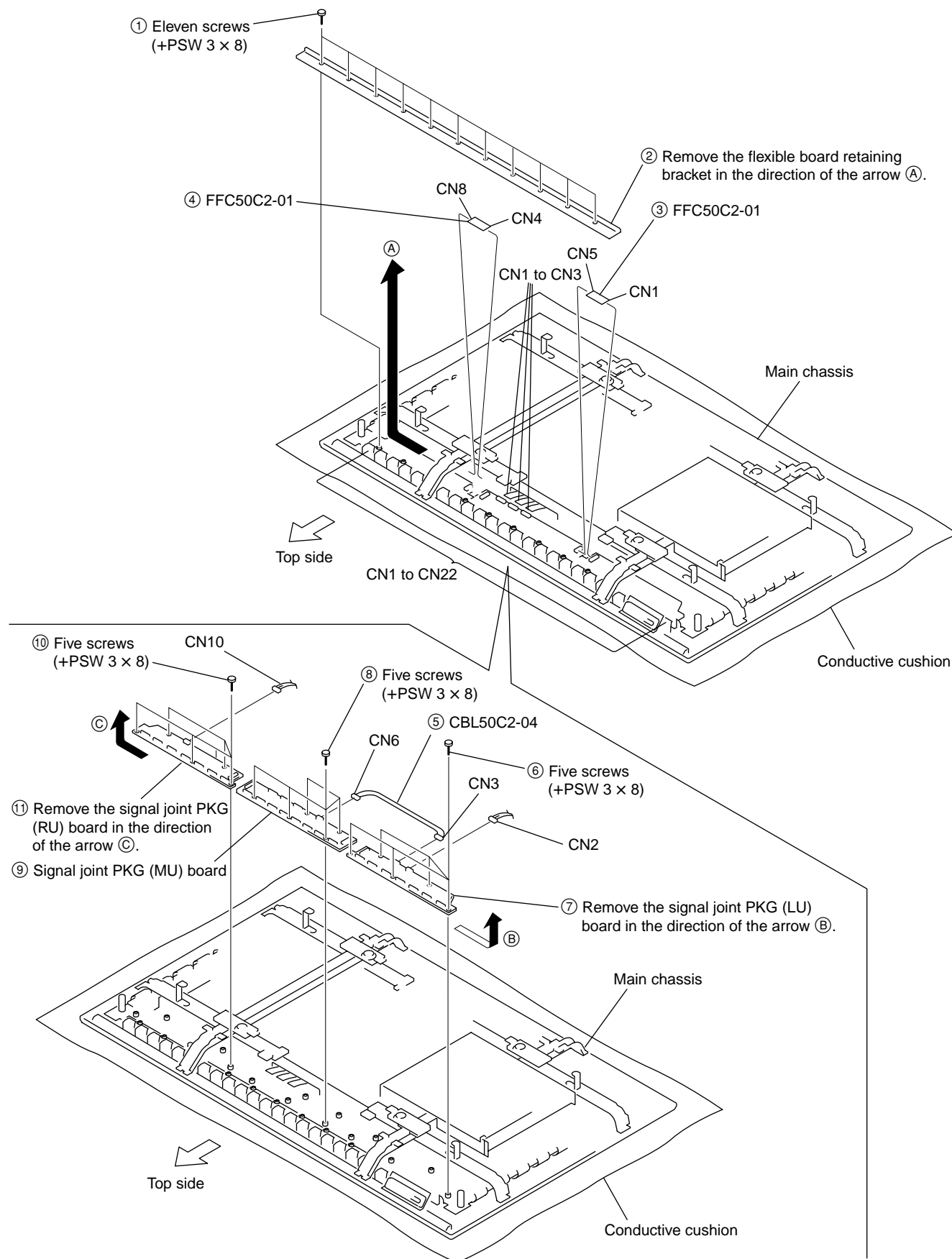
Note

To remove the scan joint PKG (A) and (B) board, remove the bezel assy and the DC fan (R) assy beforehand.

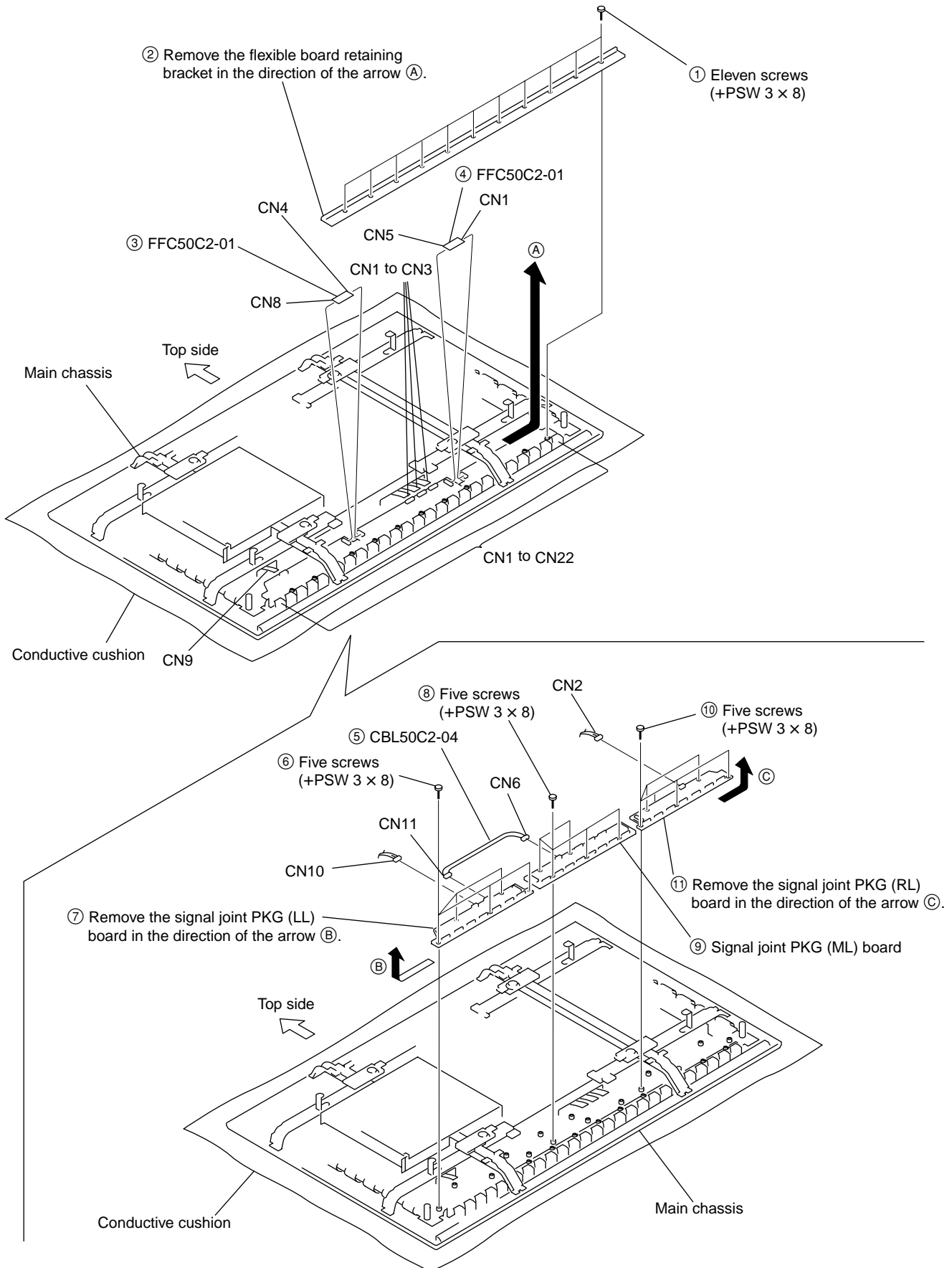


Note : To remove the scan joint PKG (A) and (B) boards, remove it after the bezel assembly has already removed earlier. If not, it can result in distortion of bezel assembly and damage of optical filter. Before starting removal, be sure to remove the operation button assy from the bezel complete assy. Be very careful not to damage the flexible wires in the top, bottom, right and left. Place the removed panel on the conductive cushion.

1-2-18. Signal Joint PKG (RU), (MU), (LU) Board Removal



1-2-19. Signal Joint PKG (RL), (ML), (LL) Board Removal

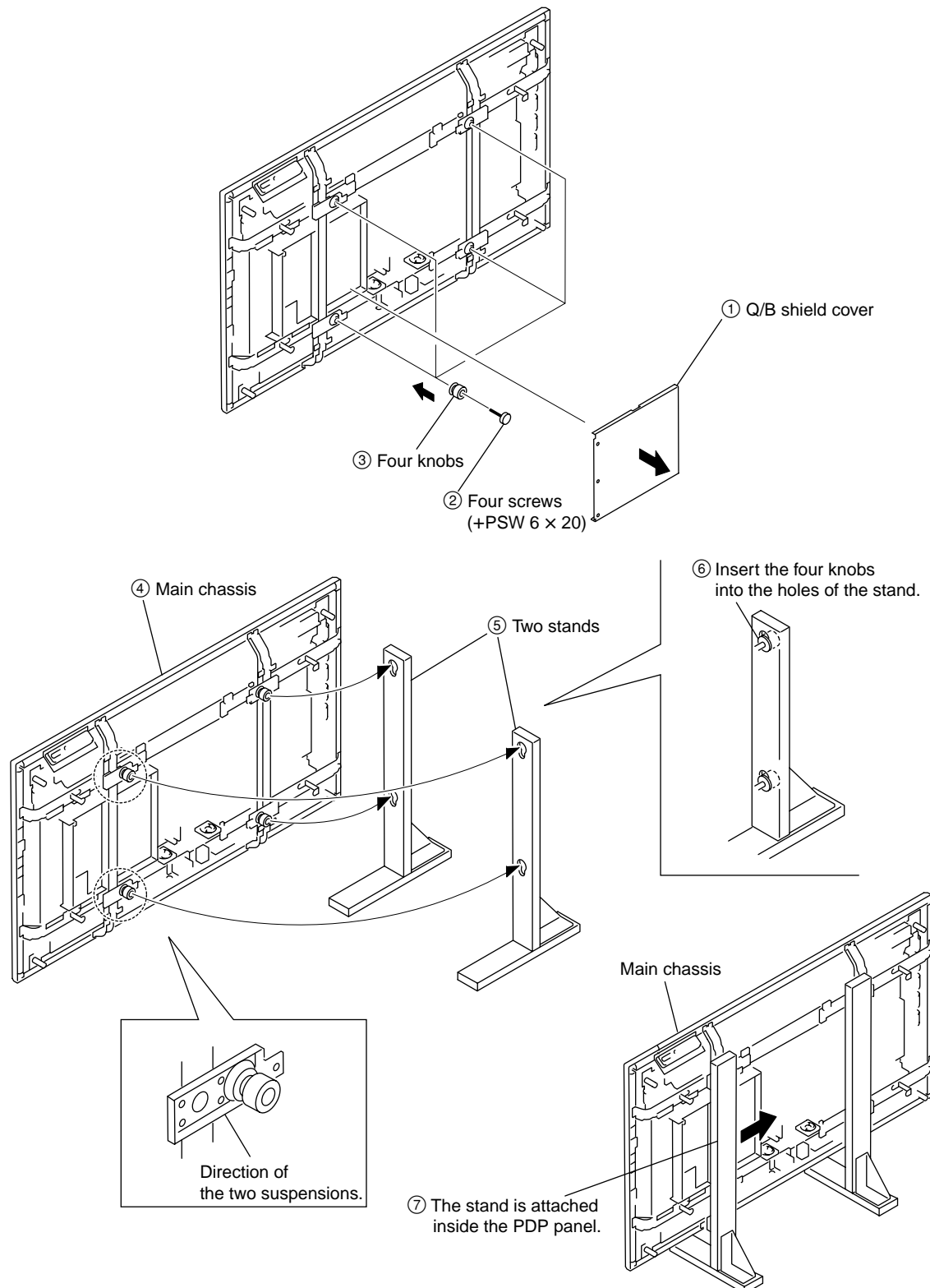


1-3. Service Position

1-3-1. Service Position of Q Board

Note

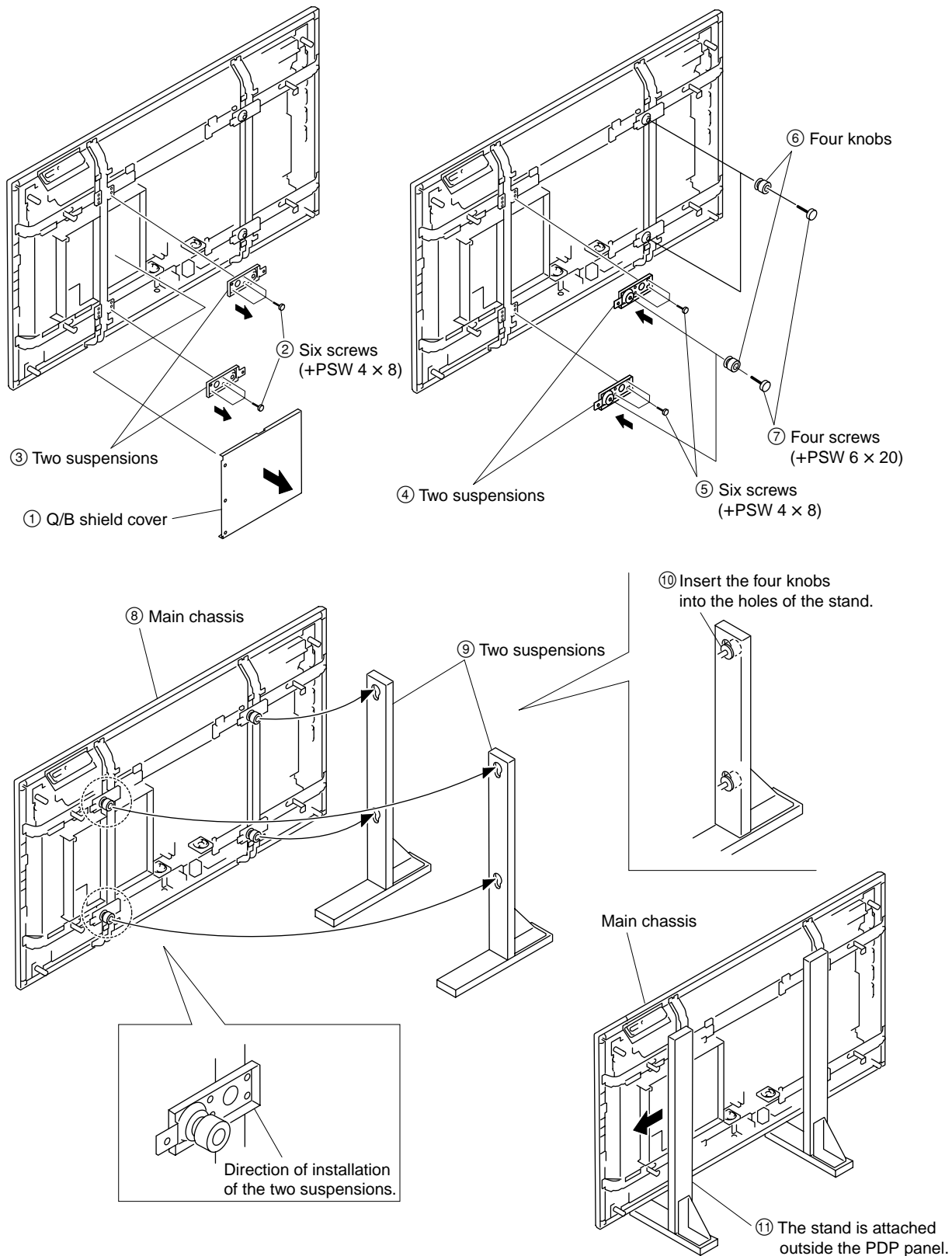
When you are going to set up the PDP panel in the service position, remove the rear cover first, and then set up the PDP panel in the service position.



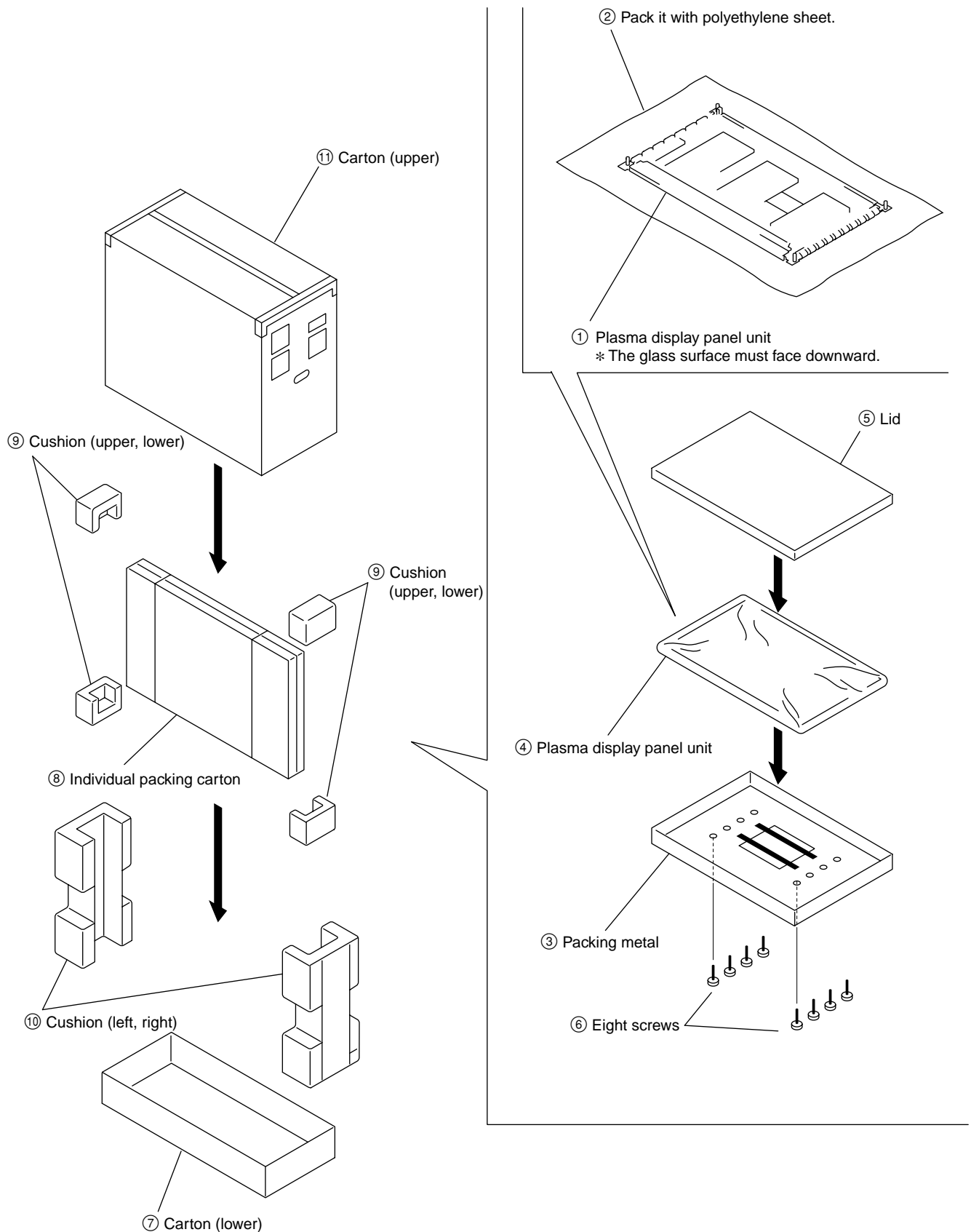
1-3-2. Service Position of B Board

Note

When you are going to set up the PDP panel in the service position, remove the rear cover first, and then set up the PDP panel in the service position.



1-4. Packaging of the Plasma Display Panel When It Is Shipped to NEC Corporation



1-5. Warning on Power Connection

Use the proper power cord for your local power supply.

PFM-50C1/50C1E

	United States, Canada	Continental Europe	United Kingdom, Ireland, Australia, New Zealand	Japan
Plug type	VM0233	COX-07 636	– a)	VM1296
Female end	VM0089	COX-02 VM0310B	VM0303B	VM1313
Cord type	SVT	H05VV-F	CEE (13) 53rd (O.C)	HVCTF
Minimum cord set rating	10A/125V	10A/250V	10A/250V	10A/125V
Safety approval	UL/CSA	VDE	VDE	DENAN-HO

a) Note : Use an appropriate rating plug which is applied to local regulations.

Section 2

Electrical Adjustments

2-1. Equipment Required

- Oscilloscope
Tektronix 2465 or equivalent
(band width : 350 MHz or more)
- VG (Programmable video signal generator)
VG814 or equivalent
- Frequency counter
Advantest TR5821AK or equivalent
- Digital voltmeter
Advantest TR6845 or equivalent
- Potential transformer
- Regulated DC power supply
- Remote commander (RM-971)

Note

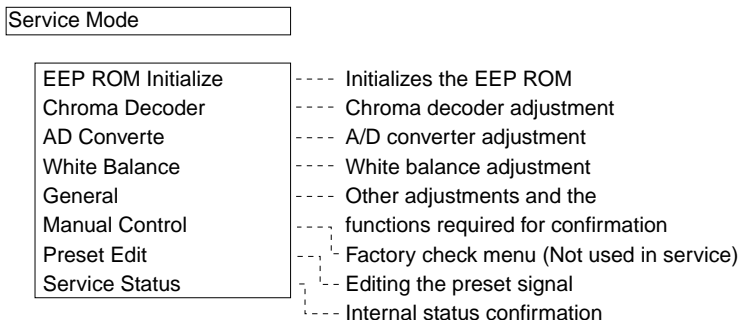
Perform the following adjustments at least 5 minutes after turning on the power.

2-2. Electrical Adjustments Using the Service Mode

The electrical adjustments can be performed using the remote commander RM-971 supplied with the PFM-50C1/50C1E. The remote commander has the Service Mode. Select the Service Mode to perform the electrical adjustments as listed below.

• Service Mode

When the machine enters the service menu, the “Service Mode” submenu is displayed in addition to the ordinary user menu. The electrical adjustment is executed using the “Service Mode” submenu.



How to enter the Service Mode using the RM-971 :
In the STAND-BY state, press the keys in the following order.

DISPLAY → **5** → **VOL+** → **POWER ON**

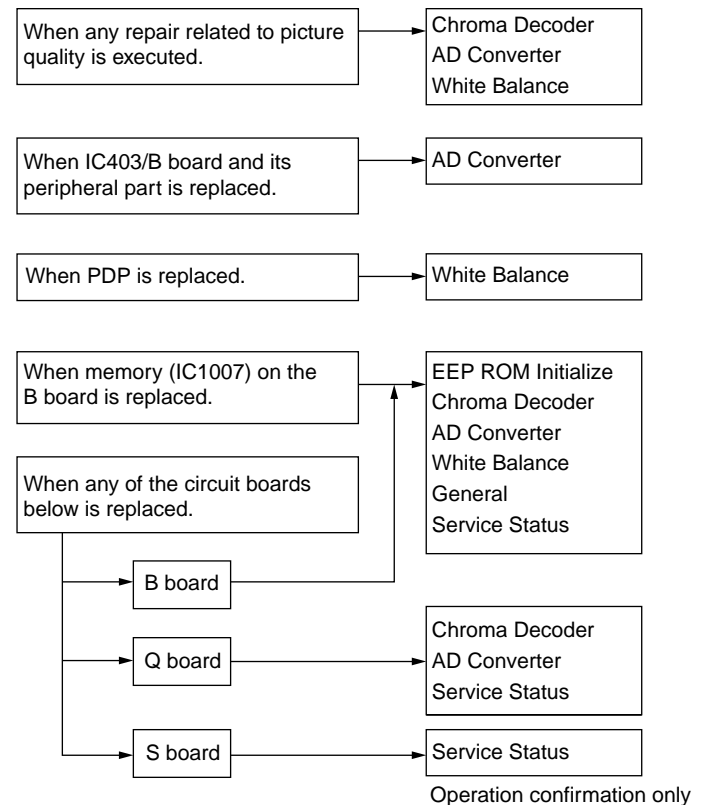
Press the **STBY** key once and back on to enter the STAND-BY state or turn off the main power to exit the Service Mode.

• Operation of remote commander in the Service Mode

The six keys of MENU, ENTER, ←, →, ↑ and ↓ are the basic operation keys in the same manner as in the user adjustment. The other keys can be operated in the same manner as in the user adjustment.

• The electrical adjustments using the Service Mode become necessary in the following cases.

When either one of the following adjustment is made, adjustment using the service mode becomes necessary.



Service Mode

1. EEPROM Initialize

EEPROM Configuration

Table 1 shows the configuration of EEPROM. The entire area or the respective areas of the EEPROM can be separately initialized.

Menu Structure

Select the desired area of EEPROM to be initialized using the following menu.

Service Mode
EEP ROM Initialize
Whole Area
Common
White Balance
Prog. Gamma
Tuner
Prog. Preset
Last Memory
User Memory
Factory

To initialize the desired area, firstly select the desired item from the EEPROM RESET menu. Change the selected item from “CANCEL” to “OK”. Then press “ENTER”.

- a) Whole Area
It initializes whole area of EEP ROM.
This command is identical to executing the all items of “Common”, “White Balance”, “Prog. Gamma”, “Tuner”, “Prog. Preset”, “Last Memory”, “User Memory” and “Factory”.
Execute this command only when the memory (IC1007) on the B board is replaced.
- b) Common
It initializes “Common (1)”, “Common (2)” and “Common (3)” of the “COMMON DATA AREA” shown in Table 1.
It initializes the data unique to the particular machine and the shared data (various setup values of the user menu”.
Because it initializes the serial number and accumulative operation hours, do not execute this command.

- c) White Balance
It initializes “Color Temp (1)” and “Color Temp (2)” of the “COMMON DATA AREA” shown in Table 1.
It initializes the color temperature “High”, “Mid” and “Low”, and all data of user setup 1 to 3 to all 0.
It also initializes the user name to “User1”, “User2” and “User3”.
- d) Prog. Gamma
This command is not used in this machine.
- e) Tuner
This command is not used in this machine.
- f) Prog. Preset
It initializes the “PRESET DATA AREA” shown in Table 1.
It resets the backup preset area.
- g) Last Memory
It initializes “LAST MEMORY AREA” shown in Table 1.
It initializes the last memory data that user has adjusted for each signal.
- h) User Memory
It initializes “USER MEMORY AREA” shown in Table 1.
It resets all of the 20 types of the adjustment data that are saved in the “User Memory” function of the user menu.
- i) Factory
It resets the EEP ROM to the factory default status.
All of the EEP ROM areas except the following are initialized by this command.

Items that are not initialized by the “FACTORY” RESET function.

In the COMMON DATA AREA

- ① Index Number stored in the Common (1) [General]
- ② Watch Error and Serial Number data stored in the Common (2) [General]
- ③ Service (1) [AD Converter] Adjustment data of 2-4. AD Calibration Adjustment.
- ④ Service (2) [Chroma Decoder] Adjustment data of 2-5. Sub Color, Sub Hue adjustment and 2-6. Video decoder adjustment.
- ⑤ Adjustment data in Color Temp (1) [Data & Name] at the factory except user adjustment value. (Adjustment data of 2-3. White Balance Adjustment)

2. Chroma Decoder

Menu structure

Hue and color of the video signal are adjusted.

Service Mode		
Chroma Decoder		
Hue		
Sub Contrast	:	8
Sub Color		
Sharp Gain	:	8
Sharp f0	:	3
Y Out Level	:	18
C Out Level	:	10
Y Delay		
Cb Offset	:	8
Cr Offset	:	8
By Adj (SECAM)	:	8
Ry Adj (SECAM)	:	8

- a) Hue
To adjust NTSC signal hue, adjust “Hue (NTSC)” in the lower layer below this sub menu.
To adjust NTSC4.43 signal hue, adjust “Hue (NT443)” in the lower layer below this sub menu.
Adjustment range is from 0 to 63.
- b) Sub Contrast
Adjustment range is from 0 to 63.
Fixed value : 8
- c) Sub Color
Adjust “Col (NTSC)”, “Col (PAL)” and “Col (SECAM)” for the respective signals of NTSC, PAL and SECAM.
Adjustment range is from 0 to 15.
Fixed value for Col (NTSC) only : 6
- d) Sharp Gain
Adjustment range is from 0 to 15.
Fixed value : 8
- e) Sharp f0
Adjustment range is from 0 to 3.
Fixed value : 3
- f) Y Out Level
Adjustment range is from 0 to 63.
Fixed value : 18
- g) C Out Level
Receive the NTSC signal and adjust color. The color adjustment of PAL and SECAM signals are performed upon completion of the NTSC signal adjustment, and use step c) Sub Color.
Adjustment range is from 0 to 63.

- h) Y Delay
Y delay for the respective signals can be adjusted by “YDL (NTSC)”, “YDL (PAL)”, “YDL (SECAM)”, “YDL (NT443)”, “YDL (PALM)” and “YDL (PALN)” respectively.
Adjustment range is from 0 to 15.
Fixed value : 5
- i) Cb Offset
Adjustment range is from 0 to 15.
Fixed value : 8
- j) Cr Offset
Adjustment range is from 0 to 15.
Fixed value : 8
- k) By Adj (SECAM)
The blue offset when receiving the SECAM signal is adjusted.
Adjustment range is from 0 to 15.
- l) Ry Adj (SECAM)
The red offset when receiving the SECAM signal is adjusted.
Adjustment range is from 0 to 15.

Sub Color and Sub Hue Adjustments

Refer to section “2-5. Sub Color and Sub Hue Adjustment”.

Video Decoder Adjustment

Refer to section “2-6. Video Decoder Adjustment”.

3. AD Converter

Menu structure

This adjustment corrects non-uniformity between RGB (or YCbCr) channels of AD converter (IC403).

Service Mode	
AD Converter	
Cal Mode	: off
RGB Calibration	
YUV Calibration	
Video Calibration	

- a) Cal Mode
Set to "On" to enter the calibration mode.
Off : Normal operation
On : Calibration mode
- b) RGB Calibration
The RGB signals are calibrated.
The RGB signals are calibrated by "Sub Cont RGB", "Red Gain", "Green Gain", "Blue Gain", "Red Bias", "Green Bias" and "Blue Bias" that are located in the lower layer below this sub menu.
Adjustment range is from 0 to 255 in each adjustment item.
- c) YUV Calibration
The component video signal is calibrated.
The component video signal is calibrated by "Sub Cont YUV", "Sub Brt YUV", "Cb Offset YUV" and "Cr Offset YUV".
Adjustment range is from 0 to 255 for "Sub Cont YUV" and "Sub Brt YUV", and from 0 to 63 for "Cb Offset YUV" and "Cr Offset YUV".
- d) Video Calibration
The composite video signal is calibrated.
The composite video signal is calibrated by "Sub Cont Video", "Sub Brt Video", "Cb Offset Video" and "Cr Offset Video".
Adjustment range is from 0 to 255 for "Sub Cont Video" and "Sub Brt Video", and from 0 to 63 for "Cb Offset Video" and "Cr Offset Video".

AD Calibration Adjustment

Refer to section "2-4. AD Calibration Adjustment".

4. White Balance

Menu structure

White balance of PDP panel is adjusted.

Service Mode	
White Balance	
Window	: Off
Color Temp.	: High
Red Gain	
Green Gain	
Blue Gain	

- a) Window
This machine has the built-in window signal for white balanced adjustment. Select large window for suitable adjustment.
Off : Window is not displayed.
(Small : Small window is displayed.)
Large : Large window is displayed.
- b) Color Temp.
Select the desired color temperature that you want to adjust located in the lower layer below this sub menu.
Select the desired color temperature from "High", "Mid", "Low", "User 1", "User 2" and "User 3".
Note
Because "User 1", "User 2" and "User 3" can be adjusted from the user menu, they are not adjusted here.
- c) Red Gain
Red gain of the selected "Color Temp." is adjusted.
Adjustment range is from 0 to 255.
- d) Green Gain
Green gain of the selected "Color Temp." is adjusted.
Adjustment range is from 0 to 255.
- e) Blue Gain
Blue gain of the selected "Color Temp." is adjusted.
Adjustment range is from 0 to 255.

White Balance Adjustment

Refer to section "2-3. White Balance Adjustment".

5. General

Menu structure

The data that are unique to the particular machine and the fan control are checked.

Service Mode		
General		
Blue Only	:	0
AGC Wide	:	14
AGC Narrow	:	13
32k Clock Out	:	Off
Watch Error	:	32.76800
Serial Number	:	2000001
Fan Status	:	
Vs/Va Setting	:	

- a) Blue Only
When “1” is set, all colors of RGB channels on the PDP become blue data only.
- b) AGC Wide
This command is not used in this machine.
- c) AGC Narrow
This command is not used in this machine.
- d) 32k Clock Out
The clock signal that is used for the Watch Error adjustment is output.
Off : Not output.
On : Output
- e) Watch Error
It corrects error of the built-in watch.
Set the measurement value of the frequency counter connected.
Adjustment range is from 32.76180 to 32.77420 kHz.
- f) Serial Number
It sets serial number.

g) Fan Status

Menu structure

Service Mode		
General		
Fan Status		
Fan Control	:	Auto
Ref Voltage	:	8.5[V]
F/B Voltage	:	8.5[V]
Drive Data	:	2B5F
P/S Temp	:	43[dC]
Center Temp	:	43[dC]
I/O Block Temp	:	43[dC]
Left Temp	:	43[dC]

- Fan Control : You can select [Auto] or [Manual]. If you select [Manual], you can set the any desired voltage to the fan drive voltage using [Ref Voltage]. Use this command for checking operation of the fan drive circuit. Select [Auto] during normal operation.
- Ref Voltage : You can set the any desired voltage to the fan drive voltage when you have selected [Manual] in the “Fan Control”. Range of setting is from 0.0 V to 12.0 V. The fan drive voltage returns to the default value when the POWER is turn off and back on again.
- F/B Voltage : It indicates the fan drive voltage. The voltage that is actually driving the fan is displayed as the setting voltage is being supplied.
- Drive Data : It indicates the fan drive data.
- P/S Temp : It indicates the temperature that is measured by the temperature sensor built in the power board.
- Center Temp : It indicates the temperature that is measured by the temperature sensor attached on top of the power board.
- I/O Block Temp : It indicates the temperature that is measured by the temperature sensor attached on top of the Q block assy.
- Left Temp : It indicates the temperature that is measured by the temperature sensor attached near the fan (large).

h) Vs/Va Setting

Menu structure

Service Mode		
General		
Vs/Va Setting		
Uvrs	:	72
Uvra	:	106
Set		
Reset		

Uvrs : You can establish the setup regarding the panel power supply Vs. Calculate the setup value Uvrs from equations (1) and (2) below.

$V_s = 70 + 10 \times V_{rs}$ equation (1)

where

$V_{rs} = 2.99 \times U_{vrs}/255$ equation (2)

Uvra : You can establish the setup regarding the panel power supply Va. Calculate the setup value Uvra from equations (3) and (4) below.

$V_a = 30 + 20 \times V_{ra}$ equation (3)

where

$V_{ra} = 2.99 \times U_{vra}/255$ equation (4)

Set : You can make the entered Uvrs and Uvra valid. Change the menu item from [Cancel] to [OK] and press [ENTER].

Note

Perform this setup only when the logic board located in the bottom center on the rear of the PDP panel, is replaced. Take reading of the Vs voltage value and the Va voltage value that is written on the label on the rear of the PDP panel, and enter the Vs and Va values in the equations (1) and (3).

Reset : You can return the Uvrs and Uvra to their default value. Change the menu item from [Cancel] to [OK] and press [ENTER].

6. Manual Control

These submenu items are used in factory for operation checks.

Do not operate this function.

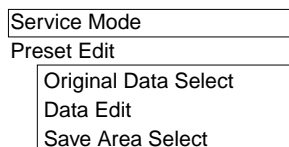
7. Preset Edit

Preset data structure

You can add the preset signals in addition to the default preset data.

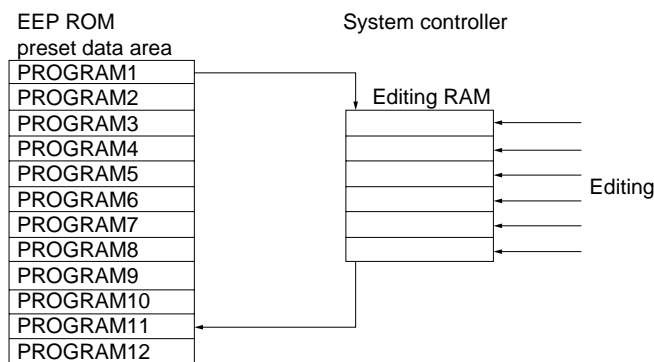
The additional preset data are stored in [PROGRAM1] to [PROGRAM12] of [PRESET DATA AREA]. [PROGRAM13] to [PROGRAM30] are not used.

Menu structure



Editing procedure

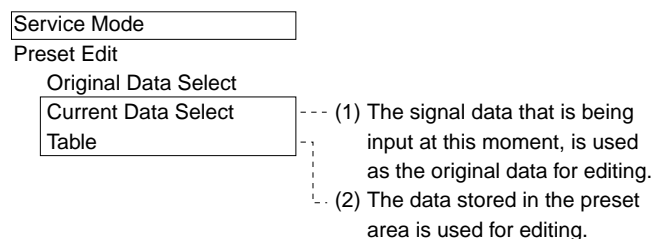
An independent memory area (editing RAM) is assigned for data editing inside the system controller as shown. First, copy the source data for editing to the editing RAM. Then modify the data on the editing RAM and save the editing contents to the specified preset area of EEP ROM. In addition to the default preset data that has been set already when shipped from the factory, you can edit the various data from the already saved data in EEP ROM or the signal data that is being input at this moment. (An example shows the case the data stored in the EEP ROM preset area No.2 is used for editing and the edited data is stored in the area No.11.)



a) Original Data Select

Menu structure

You can select the original data that is used for editing and copy the selected original data to the editing RAM.



(1) Current Data Select

When you select the signal data that is being input at this moment for editing, move the cursor to this item and press ENTER.

The selected data is copied to the editing RAM.

This mode is prepared for the case that the signal specification is unknown, and you can make editing by confirming the specification on screen.

Select the respective adjustment items and change the data as desired using the \uparrow/\downarrow key or the \leftarrow/\rightarrow key. The changed data are reflected on screen.

(If you press the ENTER key again, the screen returns to the previous menu.)

Among the adjustment items, the three types of adjustment [H Freq], [V Freq] and [Sync Pol] cannot be modified.

(2) Table

When you select the data stored in the preset area, move the cursor to this item and press ENTER. Select the desired data using the \uparrow/\downarrow key. The selected data is copied to the editing RAM.

This mode is prepared for the case that the signal specification is already known. You can make adjustment and edit data of all items but the modified data are not reflected to the actual picture images.

b) Data Edit

Menu structure

You can edit the data contents of the editing RAM.

Service Mode

Preset Edit

Data Edit

H Freq	: 031.469[kHz]	-- (1) Horizontal frequency
V Freq	: 059.94[Hz]	-- (2) Vertical frequency
Sync Pol	: N/N	-- (3) Sync signal polarity
H. Total Pixel	: 800	-- (4) Total number of dots within horizontal
H. Active Pixel	: 640	-- (5) Horizontal resolution power
H. Sync Pixel	: 96	-- (6) Number of dots of horizontal sync signal
H. BP Pixel	: 48	-- (7) Number of dots during the horizontal back porch
V. total Line	: 525	-- (8) Total number of vertical lines
V. Active Line	: 480	-- (9) Vertical resolution power (number of lines)
V. Sync Line	: 2	-- (10) Total number of lines of vertical sync signal
V. BP Line	: 33	-- (11) Number of lines during the vertical back porch
Clamp Posi	: 60	-- (12) Clamp pulse position
Clamp Width	: 8	-- (13) Clamp pulse width (number of dots)
Format Flag		-- (14) Format flag
Picture Mode	: Standard	-- (15) Picture quality mode
Color Matrix	: 12	-- (16) Color difference matrix
Zoom Mode	: 4/3	-- (17) Wide selection

(1) H Freq

It sets the horizontal frequency.

Note

When “Current Data Select” is selected in the Original Data Select, this item cannot be modified because the presently entered signal is selected for editing.

(2) V Freq

It sets the vertical frequency.

Note

When “Current Data Select” is selected in the Original Data Select, this item cannot be modified because the presently entered signal is selected for editing.

(3) Sync Pol

It sets the sync signal polarity. Sync polarities are displayed in the order of “Horizontal/Vertical”.

Sync Pol : N/N
Horizontal sync polarity
Vertical sync polarity

When you set the sync signal polarity, set it as shown below.

Negative polarity : N

Positive polarity : P

SOG : SOG

Note

When “Current Data Select” is selected in the Original Data Select, this item cannot be modified because the presently entered signal is selected for editing.

(4) H. Total Pixel

It sets the total number of dots within a single horizontal cycle.

This setup value becomes the default value of the user menu “Total H Pixel”.

Note

You should set in a way that number of H. Total Pixels is equal or more than sum of (H. Active Pixel +H. Sync Pixel +H. BP Pixel).

(5) H. Active Pixel

It sets the horizontal resolution power.

(6) H. Sync Pixel

It sets the number of dots of horizontal sync signal.

(7) H. BP Pixel

It sets the number of dots during the horizontal back porch.

(8) V. total Line

It sets the total number of vertical lines.

Note

You should set in a way that number of V. Total Line is equal or more than sum of (V. Active Line + V. Sync Line + V. BP Line).

(9) V. Active Pixel

It sets the vertical resolution power.

(10) V. Sync Line

It sets the total number of lines of vertical sync signal.

(11) V. BP Pixel

It sets the number of lines during the vertical back porch.

(12) Clamp Posi

It sets clamp pulse position.

The clamp pulse position is set starting (when data is 0) from the trailing edge of the horizontal sync signal. When this data is increased, picture moves toward the picture area.

The clamp pulse generation position T_{cp} is given by the equation below starting from the trailing edge of sync signal.

$$T_{cp} = \text{Clamp Posi} / (\text{Horizontal sync frequency} \times \text{H. Total Pixel}) \text{ [seconds]}$$

(13) Clamp Width

It sets the clamp pulse width.

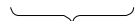
The clamp pulse width increases starting from the position that is set by the Clamp Posi. When this value is increased, the clamp pulse width is widened in the direction toward picture area.

The clamp pulse width W_{cp} is given by the equation below.

$$W_{cp} = \text{Clamp Width} / (\text{Horizontal sync frequency} \times \text{H. Total Pixel}) \text{ [seconds]}$$

(14) Format Flag

It sets ON/OFF of the following respective items in units of bit.

0	0	0	0	0	0	0	0	1 : ON
				①	②	③	④	0 : OFF

Upper 4 bits are not used.

① Setting the IP converter

Set to OFF during normal operation.

② Setting interlace

It sets the interlace input.

ON : When the input signal is the interlaced signal.

OFF : When the input signal is the progressive signal.

③ Setting to enable the “dot adjustment”

It enables or disables the “dot adjustment” in the user menu.

ON : The “dot adjustment” is enabled in the user menu.

OFF : The “dot adjustment” is disabled in the user menu.

If the actual input signal specification is different from the setups of “H. Total Pixel” and “H. Active Pixel” due to fetching the interlace, set this item to OFF.

④ Frame synchronization setting

It sets synchronization setting of the picture input to scan converter.

ON : Vertical sync of PDP panel synchronizes with the input signal.

OFF : The PDP panel display signal is no more synchronized with the input signal. When the motion picture is going to be displayed, set this item to ON.

Note

This item can be set to ON only when the vertical frequency of input signal is in the range from 50 to 60 Hz.

(15) Picture Mode

It sets the picture quality mode. Select the desired mode from “Standard”, “Vivid”, “User1”, “User2” or “User3”.

This setting becomes the default value of the “Picture Mode” of user menu.

(16)Color Matrix

It sets the color difference matrix when the color difference component signal is input.

Either “12” or “13” can be set.

12 : In the case when the signal conforms to SMPTE293M.

13 : In the case when the signal conforms to SMPTE294M.

(17)Zoom Mode

It sets the wide selection. Select the desired mode from “Expd. 4/3”, “Letterbx”, “Restore”, “Subtitle” or “4/3”.

This setting becomes the default value of the “Picture Quality Mode” of user menu.

c) Save Area Select

Menu structure

Service Mode	
Preset Edit	
Save Area Select	
Save Are	: 1 --- (1) Select the preset data area that stores the data.
Data Save	: --- (2) Executes saving of the data.

It saves the data of the editing RAM to the preset area.

(1) Save Area

It selects the preset data area that saves contents of the editing RAM.

Select the desired area from “PROGRAM1” to “PROGRAM12”.

(2) Data Save

It executes saving of the data into the area that is selected by the Save Area.

Change the menu item from [Cancel] to [OK] and press [ENTER].

Note

You can judge coincidence of the preset data with the input signal using the sync signal polarity of horizontal/vertical frequencies.

If the same sync signal data exists within a preset area, the specification that has the smaller preset number has priority.

8. Service Status

Menu structure

You can confirm internal status of the PDP panel.

Service Mode	
Service Status	
Signal/Sync	
Power Supply	
Fan & Temp Status	
Warning Status	
Operation Time	: 00001H
Software Version	: 1.00
PLD Version	: 000

a) Signal/Sync

Menu structure

Service Mode	
Service Status	
Signal/Sync	
Format	: 640 x 480/60 --- Signal specification
H Freq	: 031.469[kHz] --- Horizontal frequency
V Freq	: 059.94[Hz] --- Vertical frequency
Sync Pol	: N/N --- Sync signal polarity
Condition	: Stable --- Sync signal status

The sync signal status of the input signal is displayed.

Format : The preset signal name for the input signal is displayed.

H Freq : Horizontal frequency of the input is displayed in 6 digits.

V Freq : Vertical frequency of the input is displayed in 5 digits.

Sync Pol : Sync signal polarity is displayed.

Conditions : Sync signal status is displayed.

Stable : Stable

Insecure : Unstable

No Sync : Sync signal does not exist.

b) Power Supply

Menu structure

Service Mode		
Service Status		
Power Supply		
Digital 5V	: 5.0[V]	--- 5 V for digital circuit
Digital 3V	: 3.3[V]	--- 3 V for digital circuit
Analog 6V	: 6.0[V]	--- 6 V for analog circuit

Main DC voltages of the set are displayed.

Digital 5 V : Internal 5 V power supply voltage is displayed.

Digital 3 V : Internal 3.3 V power supply voltage is displayed.

Analog 6 V : Internal 6 V power supply voltage is displayed.

c) Fan & Temp Status

Menu structure

Service Mode		
Service Status		
Fan&Temp Status		
Fan Drive	:	OK
Fan	:	OK
P/S Temp	:	OK

P/S Temp	:	44[°C]
NO ACK DEV	:	0004

The internal temperature of the machine and the fan operating status are displayed.

Fan Drive : Operating status of the fan drive circuit is displayed. [OK] appears when it operates normally. [NG] appears when it does not operate normally.

Fan : Operating status of the fan is displayed. [OK] appears when all fans operate normally. [NG] appears when any one of the fans does not operate normally.

P/S Temp : Temperature status inside the power supply block is displayed. [OK] appears when temperature is normal. [NG] appears when temperature is abnormal.

P/S Temp : Temperature inside the power supply block is displayed.

NO ACK DEV : Status whether the communication with the respective devices that are controlled by the I²C bus, is established or not, is displayed.

When the value that is displayed on the PDP panel, is converted to the binary number, the each bit has the following meaning.

Bit 0 : Audio Processor Each bit 0 : OK, 1 : NG

Bit 1 : Audio Switch

Bit 2 : AV Switch

Bit 3 : Closed Caption Decoder

Bit 4 : 3D Comb filter

Bit 5 : Chroma Decoder

Bit 6 : PDP

Bit 7 : Tuner (No Use for PFM)

Bit 8 : Auto Wide Decoder

Bit 9 : AD Converter

Bit 10 : EEP ROM

Bit 11 : IP Converter (System IC)

Bit 12 : OSD (No Use for PFM)

Bit 13 : PLD (No Use for PFM)

Bit 14 : RTC (No Use for PFM)

Bit 15 : Scan Converter (No Use for PFM)

Note

Because this type of PDP panel is not equipped with the AV switch, bit 2 always goes to 1.

d) Warning Status

Menu structure

Service Mode		
Service Status		
Warning Status		
EEP ID	:	OK
EEP Save	:	OK
EEP Load	:	OK
RTC Init	:	OK
RTC VDET	:	OK
RTC XSTOP	:	OK
PDP Init	:	OK
DEC Init	:	OK
DC Init	:	OK
Power Off	:	OK

The warning information is displayed.

EEP ID : ID CODE error

EEP Save : Data write error

EEP Load : Data read error

RTC Init : Watch initialization error

RTC VDET : Watch power voltage error (1.8 V or less)

RTC XSTOP : Watch oscillator error

PDP Init : PDP initialization error

DEC Init : Chroma decoder initialization error

DC Init : Power voltage (digital system 5 V, digital system 3.3 V, analog system 6 V) error

Power Off : Power-off sequence error

- e) Operation Time
Accumulative operating hours are indicated. (In units of hour)
- f) Software Version
Software version is indicated.
- g) PLD Version
PLD version is indicated.

Table 1. EEP ROM memory map

Name		Address
COMMON DATA AREA	Common (1) [General]	0x0000 to 0x001F
	Common (2) [General]	0x0020 to 0x003F
	Common (3) [Parental Control]	0x0040 to 0x005F
	System	0x0060 to 0x007F
	Service (1) [AD Converter]	0x0080 to 0x009F
	Service (2) [Chroma Decoder]	0x00A0 to 0x00BF
	Service (3) [IP Converter]	0x00C0 to 0x00DF
	reserved	0x00E0 to 0x00FF
	reserved	0x0100 to 0x011F
	Color Temp (1) [Data & Name]	0x0120 to 0x013F
	Color Temp (2) [Name]	0x0140 to 0x015F
	Programmable Gamma	0x0160 to 0x017F
PRESET DATA AREA	PROGRAM1	0x0240 to 0x025F
	PROGRAM2	0x0260 to 0x027F
	PROGRAM3	0x0280 to 0x029F
	PROGRAM4	0x02A0 to 0x02BF
	PROGRAM5	0x02C0 to 0x02DF
	PROGRAM6	0x02E0 to 0x02FF
	PROGRAM7	0x0300 to 0x031F
	PROGRAM8	0x0320 to 0x033F
	PROGRAM9	0x0340 to 0x035F
	PROGRAM10	0x0360 to 0x037F
	PROGRAM11	0x0380 to 0x039F
	PROGRAM12	0x03A0 to 0x03BF
	PROGRAM13	0x03C0 to 0x03DF
	PROGRAM14	0x03E0 to 0x03FF
	PROGRAM15	0x0400 to 0x041F
	PROGRAM16	0x0420 to 0x043F
	PROGRAM17	0x0440 to 0x045F
	PROGRAM18	0x0460 to 0x047F
	PROGRAM19	0x0480 to 0x049F
	PROGRAM20	0x04A0 to 0x04BF
	PROGRAM21	0x04C0 to 0x04DF
	PROGRAM22	0x04E0 to 0x04FF
	PROGRAM23	0x0500 to 0x051F
	PROGRAM24	0x0520 to 0x053F
	PROGRAM25	0x0540 to 0x055F
	PROGRAM26	0x0560 to 0x057F
	PROGRAM27	0x0580 to 0x059F
	PROGRAM28	0x05A0 to 0x05BF
	PROGRAM29	0x05C0 to 0x05DF
	PROGRAM30	0x05E0 to 0x05FF

Name		Address
LAST MEMORY AREA	Area 1	0x0600 to 0x061F
		0x0620 to 0x063F
		0x0640 to 0x065F
		0x0660 to 0x067F
	Area 2	0x0680 to 0x069F
		0x06A0 to 0x06BF
		0x06C0 to 0x06DF
		0x06E0 to 0x06FF
	Area 3	0x0700 to 0x071F
		0x0720 to 0x073F
		0x0740 to 0x075F
		0x0760 to 0x077F
	Area 4	0x0780 to 0x079F
		0x07A0 to 0x07BF
		0x07C0 to 0x07DF
		0x07E0 to 0x07FF
	Area 5	0x0800 to 0x081F
		0x0820 to 0x083F
		0x0840 to 0x085F
		0x0860 to 0x087F
	Area 6	0x0880 to 0x089F
		0x08A0 to 0x08BF
		0x08C0 to 0x08DF
		0x08E0 to 0x08FF
	Area 7	0x0900 to 0x091F
		0x0920 to 0x093F
		0x0940 to 0x095F
		0x0960 to 0x097F
	Area 8	0x0980 to 0x099F
		0x09A0 to 0x09BF
		0x09C0 to 0x09DF
		0x09E0 to 0x09FF
	Area 9	0x0A00 to 0x0A1F
		0x0A20 to 0x0A3F
		0x0A40 to 0x0A5F
		0x0A60 to 0x0A7F
	Area 10	0x0A80 to 0x0A9F
		0x0AA0 to 0x0ABF
		0x0AC0 to 0x0ADF
		0x0AE0 to 0x0AFF

Name		Address
LAST MEMORY AREA	Area 11	0x0B00 to 0x0B1F
		0x0B20 to 0x0B3F
		0x0B40 to 0x0B5F
		0x0B60 to 0x0B7F
	Area 12	0x0B80 to 0x0B9F
		0x0BA0 to 0x0BBF
		0x0BC0 to 0x0BDF
		0x0BE0 to 0x0BFF
	Area 13	0x0C00 to 0x0C1F
		0x0C20 to 0x0C3F
		0x0C40 to 0x0C5F
		0x0C60 to 0x0C7F
	Area 14	0x0C80 to 0x0C9F
		0x0CA0 to 0x0CBF
		0x0CC0 to 0x0CDF
		0x0CE0 to 0x0CFF
	Area 15	0x0D00 to 0x0D1F
		0x0D20 to 0x0D3F
		0x0D40 to 0x0D5F
		0x0D60 to 0x0D7F
	Area 16	0x0D80 to 0x0D9F
		0x0DA0 to 0x0DBF
		0x0DC0 to 0x0DDF
		0x0DE0 to 0x0DFF
	Area 17	0x0E00 to 0x0E1F
		0x0E20 to 0x0E3F
		0x0E40 to 0x0E5F
		0x0E60 to 0x0E7F
	Area 18	0x0E80 to 0x0E9F
		0x0EA0 to 0x0EBF
		0x0EC0 to 0x0EDF
		0x0EE0 to 0x0EFF
	Area 19	0x0F00 to 0x0F1F
		0x0F20 to 0x0F3F
		0x0F40 to 0x0F5F
		0x0F60 to 0x0F7F
	Area 20	0x0F80 to 0x0F9F
		0x0FA0 to 0x0FBF
		0x0FC0 to 0x0FDF
		0x0FE0 to 0x0FFF
	Area 21	0x1000 to 0x101F
		0x1020 to 0x103F
		0x1040 to 0x105F
		0x1060 to 0x107F

Name		Address
LAST MEMORY AREA	Area 22	0x1080 to 0x109F
		0x10A0 to 0x10BF
		0x10C0 to 0x10DF
		0x10E0 to 0x10FF
	Area 23	0x1100 to 0x111F
		0x1120 to 0x113F
		0x1140 to 0x115F
		0x1160 to 0x117F
	Area 24	0x1180 to 0x119F
		0x11A0 to 0x11BF
		0x11C0 to 0x11DF
		0x11E0 to 0x11FF
	Area 25	0x1200 to 0x121F
		0x1220 to 0x123F
		0x1240 to 0x125F
		0x1260 to 0x127F
	Area 26	0x1280 to 0x129F
		0x12A0 to 0x12BF
		0x12C0 to 0x12DF
		0x12E0 to 0x12FF
	Area 27	0x1300 to 0x131F
		0x1320 to 0x133F
		0x1340 to 0x135F
		0x1360 to 0x137F
	Area 28	0x1380 to 0x139F
		0x13A0 to 0x13BF
		0x13C0 to 0x13DF
		0x13E0 to 0x13FF
	Area 29	0x1400 to 0x141F
		0x1420 to 0x143F
		0x1440 to 0x145F
		0x1460 to 0x147F
	Area 30	0x1480 to 0x149F
		0x14A0 to 0x14BF
		0x14C0 to 0x14DF
		0x14E0 to 0x14FF
	Area 31	0x1500 to 0x151F
		0x1520 to 0x153F
		0x1540 to 0x155F
		0x1560 to 0x157F
	Area 32	0x1580 to 0x159F
		0x15A0 to 0x15BF
		0x15C0 to 0x15DF
		0x15E0 to 0x15FF

Name		Address
USER MEMORY AREA	Area 1	0x1600 to 0x161F
		0x1620 to 0x163F
		0x1640 to 0x165F
		0x1660 to 0x167F
	Area 2	0x1680 to 0x169F
		0x16A0 to 0x16BF
		0x16C0 to 0x16DF
		0x16E0 to 0x16FF
	Area 3	0x1700 to 0x171F
		0x1720 to 0x173F
		0x1740 to 0x175F
		0x1760 to 0x177F
	Area 4	0x1780 to 0x179F
		0x17A0 to 0x17BF
		0x17C0 to 0x17DF
		0x17E0 to 0x17FF
	Area 5	0x1800 to 0x181F
		0x1820 to 0x183F
		0x1840 to 0x185F
		0x1860 to 0x187F
	Area 6	0x1880 to 0x189F
		0x18A0 to 0x18BF
		0x18C0 to 0x18DF
		0x18E0 to 0x18FF
	Area 7	0x1900 to 0x191F
		0x1920 to 0x193F
		0x1940 to 0x195F
		0x1960 to 0x197F
	Area 8	0x1980 to 0x199F
		0x19A0 to 0x19BF
		0x19C0 to 0x19DF
		0x19E0 to 0x19FF
	Area 9	0x1A00 to 0x1A1F
		0x1A20 to 0x1A3F
		0x1A40 to 0x1A5F
		0x1A60 to 0x1A7F
	Area 10	0x1A80 to 0x1A9F
		0x1AA0 to 0x1ABF
		0x1AC0 to 0x1ADF
		0x1AE0 to 0x1AFF
	Area 11	0x1B00 to 0x1B1F
		0x1B20 to 0x1B3F
		0x1B40 to 0x1B5F
		0x1B60 to 0x1B7F

Name		Address
USER MEMORY AREA	Area 12	0x1B80 to 0x1B9F
		0x1BA0 to 0x1BBF
		0x1BC0 to 0x1BDF
		0x1BE0 to 0x1BFF
	Area 13	0x1C00 to 0x1C1F
		0x1C20 to 0x1C3F
		0x1C40 to 0x1C5F
		0x1C60 to 0x1C7F
	Area 14	0x1C80 to 0x1C9F
		0x1CA0 to 0x1CBF
		0x1CC0 to 0x1CDF
		0x1CE0 to 0x1CFF
	Area 15	0x1D00 to 0x1D1F
		0x1D20 to 0x1D3F
		0x1D40 to 0x1D5F
		0x1D60 to 0x1D7F
	Area 16	0x1D80 to 0x1D9F
		0x1DA0 to 0x1DBF
		0x1DC0 to 0x1DDF
		0x1DE0 to 0x1DFF
	Area 17	0x1E00 to 0x1E1F
		0x1E20 to 0x1E3F
		0x1E40 to 0x1E5F
		0x1E60 to 0x1E7F
	Area 18	0x1E80 to 0x1E9F
		0x1EA0 to 0x1EBF
		0x1EC0 to 0x1EDF
		0x1EE0 to 0x1EFF
	Area 19	0x1F00 to 0x1F1F
		0x1F20 to 0x1F3F
		0x1F40 to 0x1F5F
		0x1F60 to 0x1F7F
	Area 20	0x1F80 to 0x1F9F
		0x1FA0 to 0x1FBF
		0x1FC0 to 0x1FDF
		0x1FE0 to 0x1FFF

Table 2. Factory Preset Data

	Format	Name	Resolution H(dot) × V(line)	fh [kHz]	fv [Hz]	H/V Sync Polarity	Signal Type	Scanning Format	Pixel Clock [MHz]	Horizontal (dot)				
										Total	Act	Sync	FP	BP
1	VGA	640x350@70Hz	640 × 350	31.469	70.086	P/N	RGB	Progressive	25.175	800	640	96	16	48
2	VESA	640x350@85Hz		37.861	85.08	P/N	RGB	Progressive	31.5	832	640	64	32	96
3	VESA	640x400@85Hz	640 × 400	37.861	85.08	N/P	RGB	Progressive	31.5	832	640	64	32	96
4	VESA	640x480@60Hz	640 × 480	31.469	59.94	N/N	RGB	Progressive	25.175	800	640	96	16	48
5	MAC	13inch		35	66.667	N/N	RGB	Progressive	30.24	864	640	64	64	96
6	VESA	640x480@72Hz		37.861	72.809	N/N	RGB	Progressive	31.5	832	640	40	24	128
7	VESA	640x480@75Hz		37.5	75	N/N	RGB	Progressive	31.5	840	640	64	16	120
8	VESA	640x480@85Hz		43.269	85.008	N/N	RGB	Progressive	36	832	640	56	56	80
9	VGA	720x400@70Hz	720 × 400	31.469	70.087	N/P	RGB	Progressive	28.332	900	720	108	18	54
10	VESA	720x400@85Hz		37.927	85.039	N/P	RGB	Progressive	35.5	936	720	72	36	108
11	IO_DATA	852x480@60Hz	852 × 480	32	60	–	RGB	Progressive	34.304	1072	852	128	28	64
12	MATROX_S1	856x480@60Hz	856 × 480	30.24	60	N/N	RGB	Progressive	33.627	1112	856	104	48	104
13	MATROX_S2	856x480@60Hz		30.057	59.637	N/N	RGB	Progressive	31.5	1048	856	64	32	96
14	MATROX_S3	856x480@60Hz		30.057	60.115	N/N	RGB	Progressive	31.5	1048	856	64	32	96
15	VESA	800x600@56Hz	800 × 600	35.156	56.25	P/P	RGB	Progressive	36	1024	800	72	24	128
16	VESA	800x600@60Hz		37.879	60.317	P/P	RGB	Progressive	40	1056	800	128	40	88
17	VESA	800x600@72Hz		48.077	72.188	P/P	RGB	Progressive	50	1040	800	120	56	64
18	VESA	800x600@75Hz		46.875	75	P/P	RGB	Progressive	49.5	1056	800	80	16	160
19	VESA	800x600@85Hz		53.674	85.061	P/P	RGB	Progressive	56.25	1048	800	64	32	152
20	VESA	848x480@60	848 × 480	31.020	60	P/P	RGB		33.750	1088	848	112	16	112
21	MAC	16inch	832 × 624	49.724	74.55	N/N	RGB	Progressive	57.285	1152	832	64	32	224
22	SPECIAL	1024x576@60Hz	1024 × 576	36.427	60.21	–	RGB	Progressive	48.375	1328	1024	128	48	128
23	VESA	1024x768@60Hz	1024 × 768	48.363	60.004	N/N	RGB	Progressive	65	1344	1024	136	24	160
24	VESA	1024x768@70Hz		56.476	70.069	N/N	RGB	Progressive	75	1328	1024	136	24	144
25	VESA	1024x768@75Hz		60.023	75.029	P/P	RGB	Progressive	78.75	1312	1024	96	16	176
26	VESA	1024x768@85Hz		68.677	84.997	P/P	RGB	Progressive	94.5	1376	1024	96	48	208
27	VESA	1360x768@60	1360 × 768	47.712	60.015	P/P	RGB		85.500	1792	1360	112	64	256
28	VESA	1152x864@75Hz	1152 × 864	67.5	75	P/P	RGB	Progressive	108	1600	1152	128	64	256
29	MAC	21inch	1152 × 870	68.681	75.061	N/N	RGB	Progressive	100	1456	1152	128	32	144
30	VESA	1280x960@60Hz	1280 × 960	60	60	P/P	RGB	Progressive	108	1800	1280	112	96	312
31	VESA	1280x960@85Hz		85.938	85.002	P/P	RGB	Progressive	148.5	1728	1280	160	64	224
32	VESA	1280x1024@60Hz	1280 × 1024	63.981	60.02	P/P	RGB	Progressive	108.5	1688	1280	112	48	248
33	SUN	1280x1024@67Hz		71.691	67.189	N/N	RGB	Progressive	117	1632	1280	112	16	224
34	VESA	1280x1024@75Hz		79.976	75.025	P/P	RGB	Progressive	135	1688	1280	144	16	248
35	SUN	1280x1024@76Hz		81.13	76.107	N/N	RGB	Progressive	135	1664	1280	64	32	288
36	VESA	1280x1024@85Hz		91.146	85.024	P/P	RGB	Progressive	157.5	1728	1280	160	64	224
37	VESA	1600x1200@60Hz	1600 × 1200	75	60	P/P	RGB	Progressive	162	2160	1600	192	64	304
38	PFM	852x480@60	852 × 480	31.469	60	P/N	RGB	Progressive	33.74	1072	852	124	32	64
39	PFM	1024x1024@60	1024 × 1024	67.5	60	P/N	RGB	Progressive	85.05	1260	1024	60	40	136
40	PFM	1280x768@56	1280 × 768	45	56	P/N	RGB	Progressive	77.04	1712	1280	92	80	260

Vertical (line)					Clamp		Format Flag				Default Data		
Total	Act	Sync	FP	BP	Position	Width	Frame	PLL		IP	Pic Mode	MATRIX	ZOOM MODE
							Lock	Enable	Interlace	Convert			
4491	350	2	37	60	62	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
445	350	3	32	60	36	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
445	400	3	1	41	36	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	480	2	10	33	60	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	480	3	3	39	39	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
520	480	3	9	28	29	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
500	480	3	1	16	41	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
509	480	3	1	25	24	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
449	400	2	12	35	61	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
446	400	3	1	42	37	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
529	480	3	12	34	60	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
504	480	3	1	20	56	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
504	480	3	1	20	37	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
500	480	8	1	11	37	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	600	2	1	22	39	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
628	600	4	1	23	53	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
666	600	6	37	23	35	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	600	3	1	21	32	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
631	600	3	1	27	21	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
517	480	8	6	23	66	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	FULL
667	624	3	3	37	27	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
605	576	3	1	25	47	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
806	768	6	3	29	36	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
806	768	6	3	29	29	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
800	768	3	1	28	20	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
808	768	3	1	36	17	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
795	768	6	3	18	25	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	FULL
900	864	3	1	32	21	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
915	870	3	3	39	17	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
1000	960	3	1	36	21	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
1011	960	3	1	47	15	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
1066	1024	3	1	38	19	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
1067	1024	8	2	33	15	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
1066	1024	3	1	38	16	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
1066	1024	8	2	32	7	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
1072	1024	3	1	44	13	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
1250	1200	3	1	46	18	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	480	2	10	33	59	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	FULL
1125	1024	5	48	48	8	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	FULL
804	768	7	3	26	26	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	FULL

Table 2. Factory Preset Data

	Format	Name	Resolution H(dot) × V(line)	fh [kHz]	fv [Hz]	H/V Sync Polarity	Signal Type	Scanning Format	Pixel Clock [MHz]	Horizontal (dot)				
										Total	Act	Sync	FP	BP
41	VIDEO	525_60	720 × 483	15.734	60	SOG	YUV	Interlace	28.322	968	750	32	135	51
42	VIDEO	625_50	720 × 575	15.625	50	SOG	YUV	Interlace	28.125	1000	750	32	113	105
43	DTV	575/50p	720 × 575	31.25	50	SOG	YUV/RGB	Progressive	27	1000	750	60	54	136
44	DTV	480/60p	720 × 483	31.469	60	SOG	YUV/RGB	Progressive	27	968	750	63	55	100
45	DTV	1080/24psf	1920 × 1080	27	48	SOG	YUV/RGB	Interlace	74.25	2750	1820	44	662	224
46	DTV	1080/50i	1920 × 1080	28.125	50	SOG	YUV/RGB	Interlace	74.25	2640	1820	44	552	224
47	DTV	1080/60i	1920 × 1080	33.75	60	SOG	YUV/RGB	Interlace	74.25	2200	1820	44	112	224
48	DTV	1035/60i	1920 × 1035	33.75	60	SOG	YUV/RGB	Interlace	74.25	2200	1900	44	66	190
49	DTV	720/60p	1280 × 720	45	60	SOG	YUV/RGB	Progressive	74.25	1650	1216	40	117	277
50	SDTV	NTSC_TV	720 × 483	15.734	59.94	SOG	YUV	Interlace	28.322	968	750	32	132	54
51	SDTV	NTSC_COMPOSITE	720 × 483	15.734	59.94	SOG	YUV	Interlace	28.322	968	750	32	132	54
52	SDTV	PAL_COMPOSITE	720 × 575	15.625	50	SOG	YUV	Interlace	28.125	1000	750	32	113	105
53	SDTV	SECAM_COMPOSITE	720 × 575	15.625	50	SOG	YUV	Interlace	28.125	1000	750	32	113	105
54	SDTV	443NT_COMPOSITE	720 × 483	15.734	60	SOG	YUV	Interlace	28.322	968	750	32	132	54
55	SDTV	PAL-M_COMPOSITE	720 × 575	15.734	60	SOG	YUV	Interlace	28.125	968	750	32	132	54
56	SDTV	PAL-N_COMPOSITE	720 × 575	15.625	50	SOG	YUV	Interlace	28.125	1000	750	32	113	105
57	SDTV	BW_COMPOSITE60	720 × 483	15.734	60	SOG	YUV	Interlace	28.322	968	750	32	132	54
58	SDTV	BW_COMPOSITE50	720 × 483	15.625	50	SOG	YUV	Interlace	28.322	1000	750	32	113	105
59	SDTV	NTSC_YC	720 × 483	15.734	59.94	SOG	YUV	Interlace	28.322	968	750	32	132	54
60	SDTV	PAL_YC	720 × 575	15.625	50	SOG	YUV	Interlace	28.125	1000	750	32	113	105
61	SDTV	SECAM_YC	720 × 575	15.625	50	SOG	YUV	Interlace	28.125	1000	750	32	113	105
62	SDTV	443NT_YC	720 × 483	15.734	60	SOG	YUV	Interlace	28.322	968	750	32	132	54
63	SDTV	PAL-M_YC	720 × 575	15.734	60	SOG	YUV	Interlace	28.125	968	750	32	132	54
64	SDTV	PAL-N_YC	720 × 575	15.625	50	SOG	YUV	Interlace	28.125	1000	750	32	113	105
65	SDTV	BW_YC60	720 × 483	15.734	60	SOG	YUV	Interlace	28.322	968	750	32	132	54
66	SDTV	BW_YC50	720 × 483	15.625	50	SOG	YUV	Interlace	28.322	1000	750	32	113	105
67	SDTV	PAL60	720 × 483	15.734	59.94	SOG	YUV	Interlace	28.322	968	750	32	132	54
68		OTHERS	640 × 480	31.469	59.94	N/N	RGB	Progressive	25.175	800	640	96	16	48
69		NO_SYNC	640 × 480	31.469	59.94	N/N	RGB	Progressive	25.175	800	640	96	16	48

Vertical (line)					Clamp		Format Flag				Default Data		
Total	Act	Sync	FP	BP	Position	Width	Frame Lock	PLL Enable	Interlace	IP Convert	Pic Mode	MATRIX	ZOOM MODE
525	454	2	22	47	96	39	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	2	27	62	96	39	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	3	26	62	42	12	ON	OFF	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	6	22	43	38	12	ON	OFF	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
1125	1024	10	34	57	19	12	ON	OFF	ON	OFF	STANDARD	MFID_IPC_MATRIX_274M	FULL
1125	1024	10	34	57	19	12	ON	OFF	ON	OFF	STANDARD	MFID_IPC_MATRIX_274M	FULL
1125	1024	10	34	57	19	12	ON	OFF	ON	OFF	STANDARD	MFID_IPC_MATRIX_274M	FULL
1125	1024	10	14	77	18	12	ON	OFF	ON	OFF	STANDARD	MFID_IPC_MATRIX_274M	FULL
750	684	5	23	38	22	12	ON	OFF	OFF	OFF	STANDARD	MFID_IPC_MATRIX_274M	FULL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	2	27	62	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	2	27	62	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	2	27	62	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	2	27	62	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	2	27	62	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	2	27	62	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	2	27	62	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	2	27	62	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	480	2	10	33	30	58	OFF	OFF	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	480	2	10	33	64	16	OFF	OFF	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL

2-3. White Balance Adjustment

1. Enter the Service Mode as follows. Generate the built-in adjustment signal.
Select [Service Mode] → [White Balance] → [Window], and select [Large].
2. Set the color temperature to [High] as follows.
Select [Color Temp.] → [High].
3. Adjust white balance using the R, G and B gain adjustments as follows.
Adjust white balance by adjusting [Red Gain], [Green Gain] and [Blue Gain] until color temperature satisfies the specification of 9300 K. During this adjustment, set [Green Gain] to 255 normally.
4. Set the color temperature to [Mid] as follows.
Select [Color Temp.] → [Mid].
5. Adjust white balance using the R, G and B gain adjustments as follows.
Adjust white balance by adjusting [Red Gain], [Green Gain] and [Blue Gain] until color temperature satisfies the specification of 6500 K. During this adjustment, set [Red Gain] to 255 normally.
6. Set the color temperature to [Low] as follows.
Select [Color Temp.] → [Low].
7. Adjust white balance using the R, G and B gain adjustments as follows.
Adjust white balance by adjusting [Red Gain], [Green Gain] and [Blue Gain] until color temperature satisfies the specification of 3200 K. During this adjustment, set [Red Gain] to 255 normally.

2-4. AD Calibration Adjustment

1. Adjustment Preparation

- 1) Set the [RGB Mode] of the Custom Setup menu to [PC].
- 2) Set [Cal Mode] of [AD Converter] of the Service Setup menu to [On].

2. AD Adjustment of RGB Input

- 1) Connect the RGB signal VGA (640 × 480 /60) all white 90 IRE to INPUT1.

- 2) Obtain the RGB balance by adjusting [Red Gain] and [Blue Gain] of [RGB Calibration] until the R detection value and the B detection value come very close to the G detection value.
- 3) Adjust [Sub Cont RGB] until the R, B and G detection values become the setup value. (Setup value = 230 ± 3)
- 4) Set the RGB signal to the VGA (640 × 480 /60) all gray 20 IRE.
- 5) Adjust [Red Bias], [Green Bias] and [Blue Bias] until the R, B and G detection values become the setup value. (Setup value = 51 ± 3)
- 6) Repeat the above steps 1) to 5) until all the adjustment values are satisfied at the same time.

3. AD Adjustment of Component Input

- 1) Set INPUT1 to the Component input.
- 2) Connect the component signal 1080/60i all white 90 IRE to INPUT1.
- 3) Adjust [Sub Cont YUV] of [YUV Calibration] until the G detection value becomes the setup value. (Setup value = 230 ± 3)
- 4) Set the component signal to the 1080/60i all gray 20 IRE.
- 5) Adjust [Sub Brt YUV] until the G detection value becomes the setup value. (Setup value = 51 ± 3)
- 6) Adjust [Cb Offset YUV] until the B detection value agrees with the G detection value.
- 7) Adjust [Cr Offset YUV] until the R detection value agrees with the G detection value.
- 8) Repeat the above steps 5) to 7) until all adjustment values are set to the setup value of step 5).
- 9) Repeat the above steps 2) to 8) until all adjustment values are set to the setup values of steps 3) and 5).

4. AD Adjustment of Video Input (When the Video Input connector is installed)

- 1) Set the INPUT to the Video input.
- 2) Connect the NTSC all white 90 IRE video signal to INPUT.
- 3) Adjust [Sub Cont Video] of [Video Calibration] until the G detection value becomes the setup value. (Setup value = 230 ± 3)
- 4) Set the video signal to the NTSC all gray 20 IRE.
- 5) Adjust [Sub Brt Video] until the G detection value becomes the setup value. (Setup value = 51 ± 3)

- 6) Adjust [Cb Offset Video] until the B detection value agrees with the G detection value.
- 7) Adjust [Cr Offset Video] until the R detection value agrees with the G detection value.
- 8) Repeat the above steps 5) to 7) until all adjustment values are set to the setup value of step 5).
- 9) Repeat the above steps 2) to 8) until all adjustment values are set to the setup values of steps 3) and 5).

5. Set [Cal Mode] to [Off].

Note

The above described adjustment items 2, 3 and 4 must be performed while the picture quality mode User1 is in the standard condition.

2-5. Sub Color and Sub Hue Adjustments

1. Connect the NTSC SMPTE color bar signal to Video Input.

(1)		(2)		(3)		(4)
(A)		(B)		(C)		(D)

SMPTE color bars

2. Set the picture quality setting User1 in the standard condition as follows.
Select [Picture Mode] → [User1]. Then set [Reset] of [Adjust Picture] to [OK].
3. Enter the Service Mode and then select the Blue Only mode as follows.
Select [Service Mode] → [General] → [Blue Only], and set [1].

4. While observing the screen display, adjust the NTSC Sub Color and Sub Hue as follows.

Select [Service Mode] → [Chroma Decoder] → [Sub Color], and set [Col (NTSC)] to [6].

Adjust [C Out Level] of [Chroma Decoder] until (1) has the same brightness as (A), and (4) has the same brightness as (D).

Select [Hue] of [Chroma Decoder] and adjust [Hue (NTSC)] until (2) has the same brightness as (B), and (3) has the same brightness as (C).

Repeat the above described adjustments until all the adjustment values are satisfied at the same time.

(Tracking)

5. Connect the PAL SMPTE color signal to Video Input.

6. While observing the screen display, adjust the PAL Sub Color as follows.

Select [Service Mode] → [Chroma Decoder] → [Sub Color].

Adjust [Col (PAL)] of [Chroma Decoder] until (1) has the same brightness as (A), and (4) has the same brightness as (D).

7. Connect the SECAM SMPTE color signal to Video Input.

8. While observing the screen display, adjust the SECAM Sub Color as follows.

Select [Service Mode] → [Chroma Decoder] → [Sub Color].

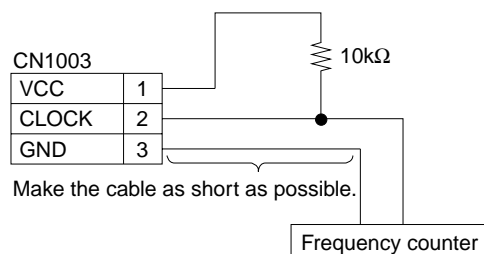
Adjust [Col (SECAM)] of [Chroma Decoder] until (1) has the same brightness as (A), and (4) has the same brightness as (D).

2-6. Video Decoder Adjustment

1. Connect the SECAM all gray 30 IRE signal to Video Input.
2. Set [Cal Mode] of [AD Converter] of the Service Mode menu to [On].
3. Adjust [By Adj (SECAM)] of [Chroma Decoder] of the Service Mode menu until the Blue detection value has the same value as the Green value.
4. Adjust [Ry Adj (SECAM)] of [Chroma Decoder] of the Service Mode menu until the Green detection value has the same value as the Green value.
5. Repeat steps 3 and 4 until the detection values of R, G and B are within the range ($\pm 5\%$) of tolerance error.
6. Set [Cal Mode] of [AD Converter] of the Service Mode menu to [Off].

2-7. Watch Error Adjustment

1. Select [32k Clock Out] in [General] of the Service Mode and set it to [On].
2. Connect a frequency counter as shown below and measure the frequency.



3. Select [Watch Error] in [General] of the Service Mode and enter the measurement result.
4. Select [32k Clock Out] in [General] of the Service Mode and set it to [Off].

2-8. Power Supply Block Adjustment

When the power supply block is replaced, perform the following adjustments.

1. Connect the 100 % all white signal to INPUT1.
2. Connect the positive probe (+) of a digital VOM to TP1 (Vs) and the ground (–) probe to TP4 (GND).
3. Adjust RV401 (Vs ADJ) so that the VOM reading becomes the Vs value ± 0.5 V in the top right of the back of the panel.
4. Connect the positive probe (+) of a digital VOM to TP2 (Vd).
5. Adjust RV601 (Vd ADJ) so that the VOM reading becomes the Vd value ± 0.5 V in the top right of the back of the panel.

Section 3

Troubleshooting

3-1. Judging Method When Image Does Not Appear

1. Flow chart

Picture does not appear



Check the indication on the indicator in the lower right of the front panel. (STAND BY)

STBY LED flashes



2 times

When error code is detected from panel.



3 times

When temperature increases.



4 times

When 5 V digital system power voltage decreases (2.5 V or less) or becomes excess voltage (6 V or more)



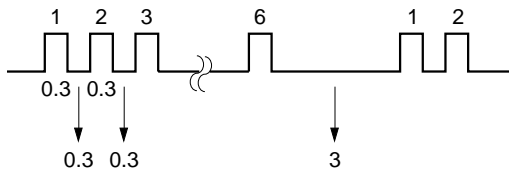
5 times

When 3.3 V digital system power voltage decreases (1.6 V or less) or becomes excess voltage (4 V or more)



6 times

When 6 V analog system power voltage decreases (3 V or less) or becomes excess voltage (7.2 V or more)



When the STBY LED does not flash, the power supply circuit is defective.

2. How to find PDP unit trouble

- 1) The power voltage for the PDP is supplied correctly. The power voltages are supplied from the switching regulator board CN9002 and CN9003 to the PDP panel. The three types of power voltage that are 5 V, 65 V and 170 V are supplied.

- 2) The input signal is supplied to the PDP panel correctly. The LVDS signal is supplied to CN01 of the circuit board in the center of the PDP panel.

If no images appears through the above conditions are satisfied, the PDP unit will be defective.

3-2. Self Diagnosis Function

3-2-1. Overview

The self-diagnosis function of this model detects abnormality by checking the power voltages, detecting temperature, detecting operation of fans and by checking EEPROM register and the watch timer using the A/D converter. When any abnormality is detected, the self-diagnosis function displays the abnormality by flashing the Standby indicator and displays the detected data on the service menu.

If the abnormal condition exceeds the allowable limit, it forcibly activates the shutdown operation.

The self-diagnosis function detects operations of the following points.

1. Detecting stoppage of fans and detecting failure of the fan drive circuit
2. Detecting temperature increase of the power supply block and shutting it down
3. Detecting temperature increase at the center of the top of the PDP panel and shutting power supply down
4. Detecting temperature increase at the I/O block side of the top of the PDP panel and shutting power supply down
5. Detecting temperature increase at the left side of the PDP panel and shutting power supply down
6. Detecting the communication error with each device
7. Detecting the EEPROM error
8. Detecting decrease of the watch backup power voltage and detecting abnormal oscillation
9. Detecting PDP initialization error
10. Detecting chroma decoder initialization error
11. Detecting abnormal voltage of the internal power supply and shutting it down
12. Detecting abnormal power-off sequence

If any abnormality is detected, the Standby indicator flashes at the interval of 0.4 seconds continuously.

At the same time, the corresponding item shows the NG indication the service menu.

The NG indication is not reset and is accumulated unless the AC cord is disconnected.

If the abnormal condition exceeds the allowable limit, it forcibly activates the shutdown operation and picture will not be displayed any more.

At this time, the Standby indicator flashes to indicate that the PDP unit is in the error mode as shown in Section 3-1.

3-2-2. Abnormality Judgment Criterion

1. Detecting stoppage of fans and detecting failure of the fan drive circuit

Service Mode		
Service Status		
Fan & Temp Status		
Fan Drive	:	OK --- (1)
Fan	:	OK --- (2)
P/S Temp	:	OK
P/S Temp	:	44[°C]
NO ACK DEV	:	0004

- (1) Fan Drive : If the fan drive circuit is defective, “NG” is displayed.
- (2) Fan : If any of the four built-in fans stops its rotation, “NG” is displayed.

2. Detecting temperature increase of the power supply block and shutting it down

Service Mode		
Service Status		
Fan & Temp Status		
Fan Drive	:	OK
Fan	:	OK
P/S Temp	:	OK --- (1)
P/S Temp	:	44[°C]
NO ACK DEV	:	0004

- (1) P/S Temp : If temperature inside the power supply block exceeds 71°C, “NG” is displayed. If temperature exceeds 76°C, the shutting-down is activated.

3. Detecting temperature increase at the center of the top of the PDP panel and shutting it down

Service Mode	
General	
Fan Status	
Fan Control	: Auto
Ref Voltage	: 8.5[V]
F/B Voltage	: 8.5[V]
Drive Data	2B5F
P/S Temp	: 43[°C]
Center Temp	: 43[°C] --- (1)
I/O Block Temp	: 43[°C]
Left Temp	: 43[°C]

- (1) Center Temp : The temperature that is measured by the S board installed in the top of the power supply board, is displayed. If temperature exceeds 71°C, the Standby indicator flashes at the interval of 0.4 seconds continuously. If temperature exceeds 76°C, the shutting-down is activated.

4. Detecting temperature increase at the I/O block side of the top of the PDP panel and shutting it down

Service Mode	
General	
Fan Status	
Fan Control	: Auto
Ref Voltage	: 8.5[V]
F/B Voltage	: 8.5[V]
Drive Data	2B5F
P/S Temp	: 43[°C]
Center Temp	: 43[°C]
I/O Block Temp	: 43[°C] --- (1)
Left Temp	: 43[°C]

- (1) I/O Block Temp : The temperature that is measured by the S board installed in the top of the Q block assembly, is displayed. If temperature exceeds 71°C, the Standby indicator flashes at the interval of 0.4 seconds continuously. If temperature exceeds 76°C, the shutting-down is activated.

5. Detecting temperature increase at the left side of the PDP panel and shutting it down

Service Mode	
General	
Fan Status	
Fan Control	: Auto
Ref Voltage	: 8.5[V]
F/B Voltage	: 8.5[V]
Drive Data	2B5F
P/S Temp	: 43[°C]
Center Temp	: 43[°C]
I/O Block Temp	: 43[°C]
Left Temp	: 43[°C] --- (1)

- (1) Left Temp : The temperature that is measured by the S board installed in the vicinity of the fan (large), is displayed. If temperature exceeds 71°C, the Standby indicator flashes at the interval of 0.4 seconds continuously. If temperature exceeds 76°C, the shutting-down is activated.

6. Detecting the communication error with each device

Service Mode	
Service Status	
Fan & Temp Status	
Fan Drive	: OK
Fan	: OK
P/S Temp	: OK
P/S Temp	: 44[°C]
NO ACK DEV	: 0004 --- (1)

(1) NO ACK DEV : It indicates if the communication with the respective devices that are controlled by the I²C bus is correctly established or not.

Bit 0 : Audio Processor Each bit : 0 : OK 1 : NG
 Bit 1 : Audio Switch
 Bit 2 : AV Switch
 Bit 3 : Closed Caption Decoder
 Bit 4 : 3D Combfilter
 Bit 5 : Chroma Decoder
 Bit 6 : PDP (No Use for PFM-50C1/E)
 Bit 7 : Tuner (No Use for PFM)
 Bit 8 : Auto Wide Decoder
 Bit 9 : AD Converter
 Bit 10 : EEP ROM
 Bit 11 : IP Converter (System IC)
 Bit 12 : OSD (No Use for PFM)
 Bit 13 : PLD (No Use for PFM)
 Bit 14 : RTC (No Use for PFM)
 Bit 15 : Scan Converter (No Use for PFM)

Note

Because this model does not contain the AV switch, bit 2 always goes to 1 (high).

This function has the detection of the device containing error. It does not activate displaying the warning nor shutting-down operation.

7. Detecting the EEPROM error

Service Mode	
Service Status	
Warning Status	
EEP ID	: OK --- (1)
EEP Save	: OK --- (2)
EEP Load	: OK --- (3)
RTC Init	: OK
RTC VDET	: OK
RTC XSTOP	: OK
PDP Init	: OK
DEC Init	: OK
DC Init	: OK
Power Off	: OK

If communication with EEPROM is not established correctly, the “NG” indication is displayed on the corresponding item.

- (1) EEP ID : ID CODE error
- (2) EEP Save : Data write error
- (3) EEP Load : Data read error

8. Detecting decrease of the watch backup power voltage and detecting abnormal oscillation

Service Mode	
Service Status	
Warning Status	
EEP ID	: OK
EEP Save	: OK
EEP Load	: OK
RTC Init	: OK --- (1)
RTC VDET	: OK --- (2)
RTC XSTOP	: OK --- (3)
PDP Init	: OK
DEC Init	: OK
DC Init	: OK
Power Off	: OK

If the watch IC does not work correctly, the “NG” indication is displayed on the corresponding item.

- (1) RTC Init : Watch initialization error
- (2) RTC VDET : Watch power voltage error (1.8 V or less)
- (3) RTC XSTOP : Watch oscillator error

9. Detecting chroma decoder initialization error

Service Mode		
Service Status		
Warning Status		
EEP ID	:	OK
EEP Save	:	OK
EEP Load	:	OK
RTC Init	:	OK
RTC VDET	:	OK
RTC XSTOP	:	OK
PDP Init	:	OK
DEC Init	:	OK --- (1)
DC Init	:	OK
Power Off	:	OK

- (1) DEC Init : In the case of the chroma decoder unit initialization error, the “NG” indication is displayed.

10. Detecting abnormal voltage of the internal power supply and shutting power supply down

Service Mode		
Service Status		
Warning Status		
EEP ID	:	OK
EEP Save	:	OK
EEP Load	:	OK
RTC Init	:	OK
RTC VDET	:	OK
RTC XSTOP	:	OK
PDP Init	:	OK
DEC Init	:	OK
DC Init	:	OK --- (1)
Power Off	:	OK

- (1) DC Init : When the internal power supply (digital system 5 V, digital system 3.3 V or analog system 6 V) does not start up, the “NG” indication is displayed.
- If any one of these power supplies does not start up, the shutting-down operation is activated and this indication is stored in log after the PDP unit returns to the normal operation.

11. Detecting abnormal power-off sequence

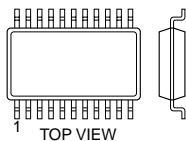
Service Mode		
Service Status		
Warning Status		
EEP ID	:	OK
EEP Save	:	OK
EEP Load	:	OK
RTC Init	:	OK
RTC VDET	:	OK
RTC XSTOP	:	OK
PDP Init	:	OK
DEC Init	:	OK
DC Init	:	OK
Power Off	:	OK --- (1)

- (1) Power Off : If the power-off sequence is not performed correctly, “NG” is displayed. Failure of the power supply block or failure of the PDP is suspected.

Section 4

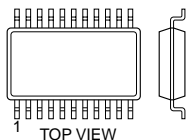
Semiconductors

7032V-DAD19-SP-V2.02
K4S161622D-TC80
MSM56V16160F-10TS-K



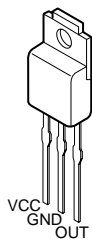
50pin SOP

BA033F-E2
BA033FP
BA033FP-E2
BA10358F-E2
BR24C21F-E2
CXA1211M
CXA1211M-T4
LM1881M
LM1881MX
LM358D
LMV358MX
M24C64-WMN6T(A)
NJM2903M
NJM2903M-T2
NJM2904M
NJM2904M(Te2)
NJM4558E(Te2)
SI-3025LSA-TL
SN74CBTD3306PWR-12
TC4W53FU
TC4W53FU(Te12R)
TC7W126FU(Te12R)
TC7W14FU(Te12R)
TC7W241FU(Te12R)
TC7W241FU-Te12R
UPC358G2-E2
UPC358G2-T2

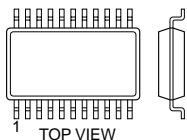


8pin SOP

BA05FP-E2
BA12FP-E2

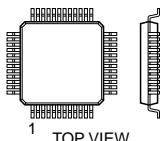


BA10324AF
BA10324AF-E2
LM324DT
MM74HC32MTCX
SN74HC32APWR
SN74LV123APWR
TC74HC125AF
TC74HC125AF(EL)
TC74VHCT14AFT(EL)
TK15452V



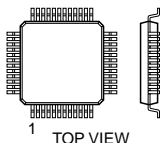
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CXA2163Q-T6
MC141627FT



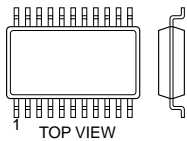
48pin QFP

CXA3516R



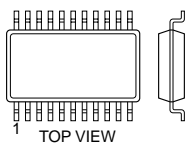
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MAX202CSE
MAX202CSE-T
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SN74LV4053APWR
TC74HC4052AF(EL)



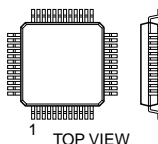
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TEA6422DT



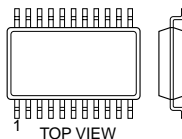
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CXD9606Q



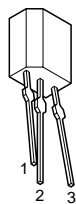
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DS90CF383AMTDX

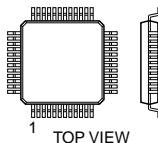


56pin SOP

HA17431UA(TL)
HA17431UA-TL

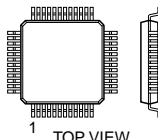


HD64F2633TE



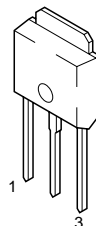
120pin QFP

IP00C713

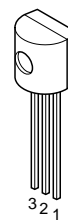


256pin QFP

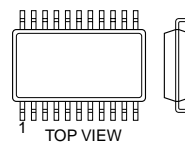
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LM35DZ
LM35DZ

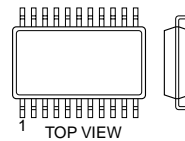


M52347FP-TE
TC74VHC541FT(EL)
TC74VHCT541AFT(EL)



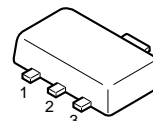
20pin SOP

M52758FP

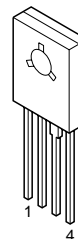


36pin SOP

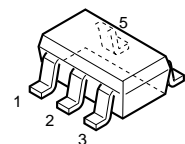
PQ07VZ012P
PQ07VZ012ZP



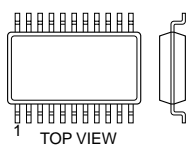
PQ30RV21



PST9229NL

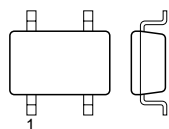


RS5C348A-E2



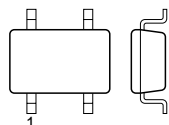
10pin SOP

S-80828ANNP-EDR-T2
S-80842ANNP-ED6-T2



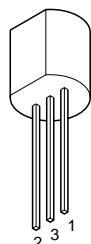
4pin CHIP

SC7S04F
TC7S04F(TE85R)
TC7S08FU(TE85R)
TC7S08FU-TE85R

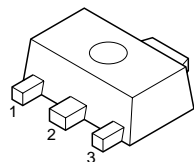


5pin CHIP

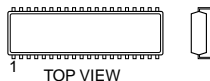
TA78L018AP(TPE6)



TA78M09F (TE16L)
TA78M09F(TE16L)

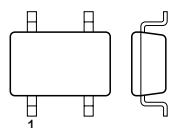


TA8776N



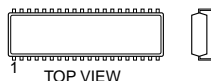
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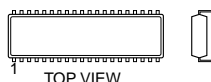
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TDA7480



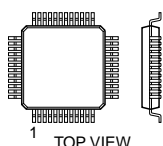
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TK83854D
UC2854N
UC3854N



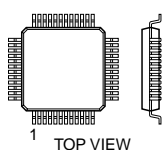
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UPD64083GF-3BA



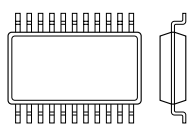
100pin QFP

XC18V02VQ44C



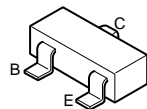
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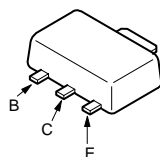


18pin SOP

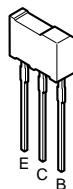
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2SA1037AK-T146-R
2SA1162-G
2SA1462
2SA1462-T1Y33Y34
2SA1774R
2SA1774TL-QR
2SB624-BV345
2SB624T1-BV345
2SB709A-QRS-TX
2SC1623-L5L6
2SC2412K-T-146-QR
2SC4617R
2SC4617TL-QR
2SD601A-QRS-TX
2SD601A-Q-TX
DTA114EKA-T146
DTC114EKA-T146
DTC144EE
DTC144EKA
DTC144EKA-T146
MSB709-RT1
MSD601-RT1
MUN2111T1
MUN2211T1
UN2111
UN2111-TX
UN2211
UN2211-TX



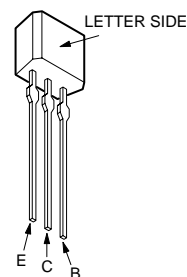
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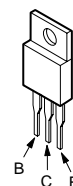
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2SD1862TV2QR



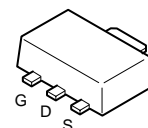
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2SC2785TP-HFE



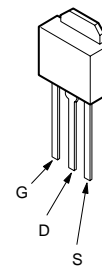
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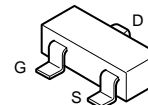
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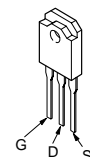
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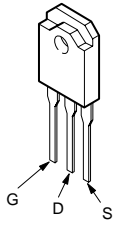
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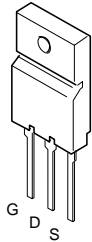
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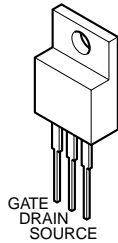
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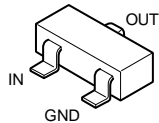
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2SK3212-01**



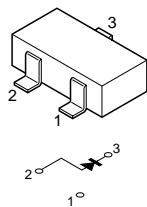
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FK10KM-10
FS20KM-5**



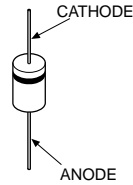
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DTA144EE-TL
DTC144EE-TL**



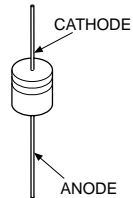
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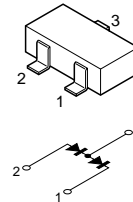
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“1DL42A(N,TPA3)”
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RD10ES-B2**



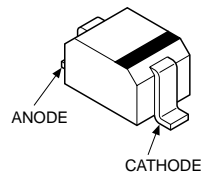
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1SS133T-77
MTZJ4.7C
MTZJ-T-77-10B
MTZJ-T-77-4.7B**



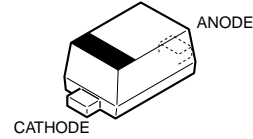
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MA157-TX
MA3130WA-TX**



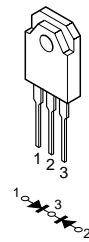
**1SS355TE-17
DTZ10B
HRU0103ATRF
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HZU30BTRF
HZU6.2BTRF
MA111-(K8).S0
MA111-TX
MA113-(TX)
MA113-TX
RD3.3SB
RD3.3SB-T1
RD30SB-T1
RD5.6SB-T1
RD6.2SB
RD6.2SB-T1**



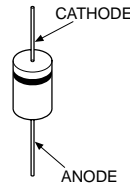
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MA2S111-(K8)
UDZSTE-1710B
UDZS-TE17-12B
UDZSTE-174.7B
UDZSTE-175.6B**



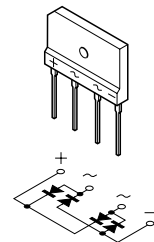
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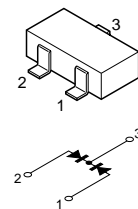
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D1NL20U-TA2
RD7.5SB-T1**



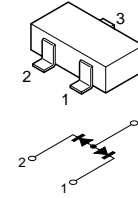
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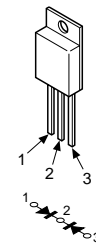
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DAN202K-T-146
M1MA152WK-T1**



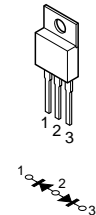
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DAP202K-T-146
DAP222
DAP222-TL**



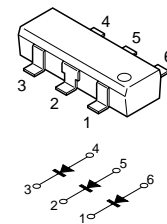
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FCH08A10
FCQ20A03L**



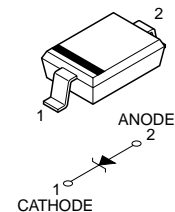
**F10P20FR
FCH10A15
FRH10A15**



**HN1D03FU-TE85L
HN1D03FU-TE85R**

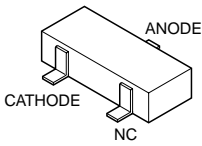


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HZU7.5BTRF**

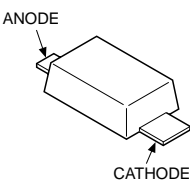


Diode

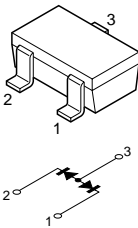
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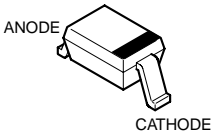
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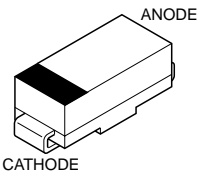
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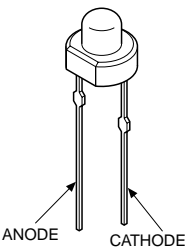
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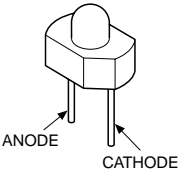
NSQ03A06-TE16L



SLR-325MCT31



SLR-325VCT31



Section 5

Spare Parts

5-1. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

Components marked \triangle are critical to safe operation.
Therefore, specified parts should be used in the case of replacement.

WARNHINWEIS

Les composants identifiés par la marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.
Parts List has the present standardized repair parts.

3. Stock of Parts

Parts marked with “o” at SP (Supply Code) column of the Spare Parts list may not be stocked. Therefore, the delivery date will be delayed.
Items with no part number and no description are not stocked because they are seldom required for routine service.

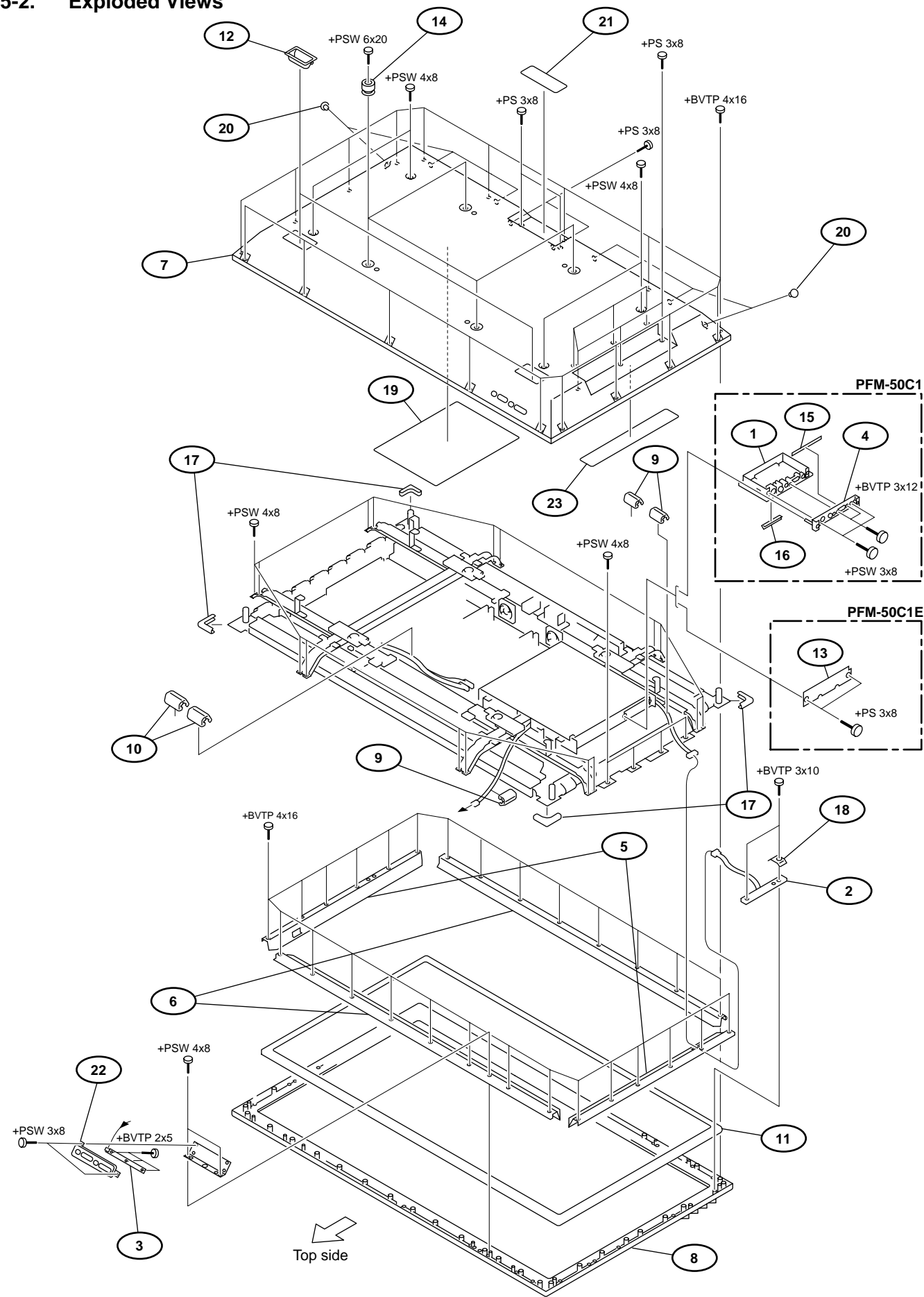
4. Units for Capacitors, Inductors and Resistors

The following units are assumed in Schematic Diagrams, Electrical Parts List and Exploded Views unless otherwise specified.

Capacitors	: μF
Inductors	: μH
Resistors	: Ω

40001 and higher for CE

5-2. Exploded Views

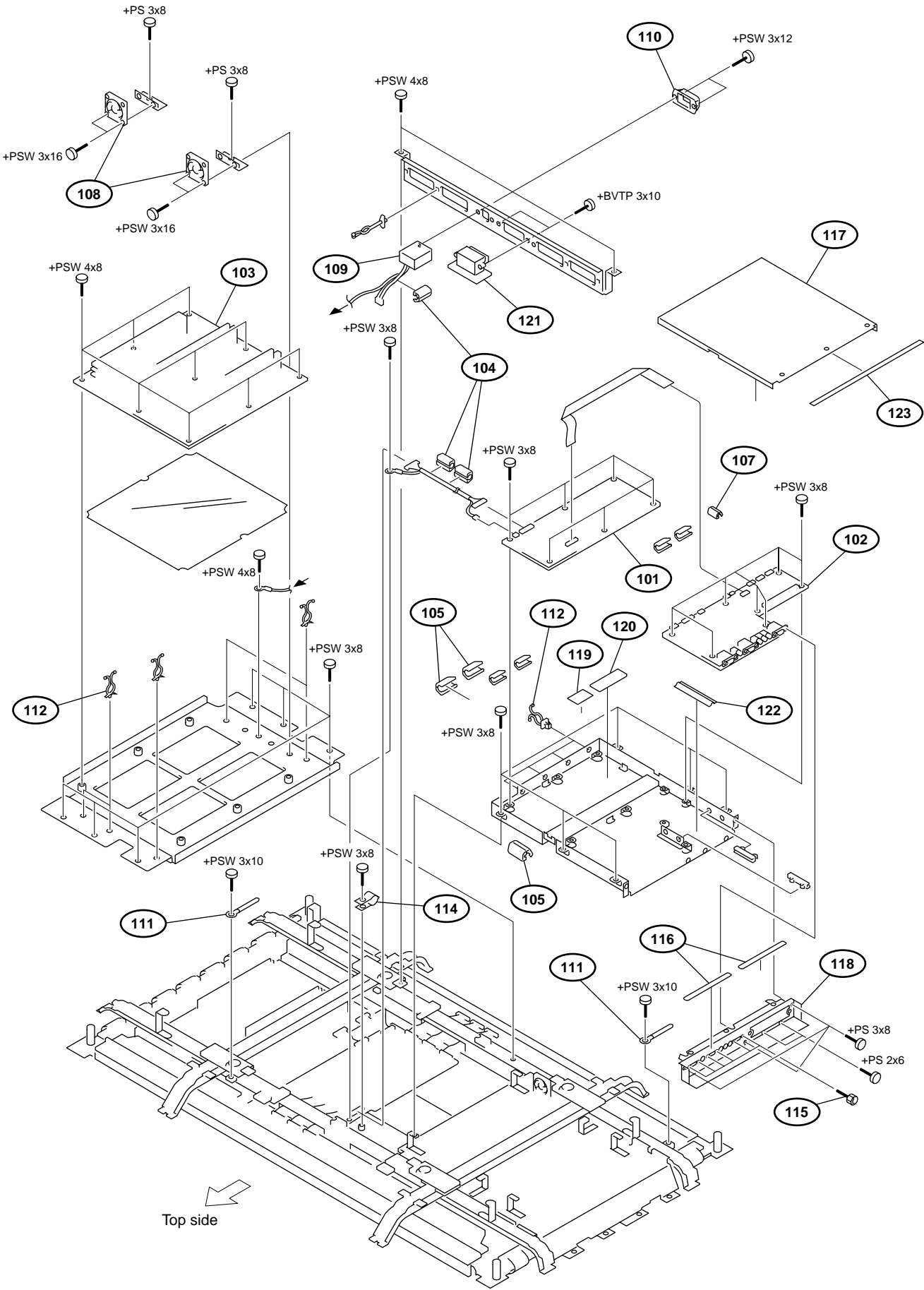


No.	Part No.	SP Description
1	A-1270-443-A	o MOUNTED CIRCUIT BOARD QA
2	A-1400-425-A	s MOUNTED CIRCUIT BOARD H1
3	A-1400-426-A	s MOUNTED CIRCUIT BOARD H2
4	X-4038-605-2	o PANEL ASSY, QA
5	X-4040-499-1	o HOLDER ASSY, FILTER (V)
6	X-4040-500-1	o HOLDER ASSY, FILTER (H)
7	X-4040-501-1	o COVER ASSY, REAR
8	X-4040-502-1	o BEZEL ASSY
9	1-469-778-11	o CLAMP, FERRITE (RFC-5)
10	1-500-037-11	s CLAMP, FERRITE (SFC-10)
11	1-758-787-11	s GLASS, OPTICAL FILTER
12	4-043-825-01	s HANDLE
13	4-080-962-02	o PANEL BLANK
14	4-081-315-02	s KNOB
15	4-082-873-01	o GASKET (2X4)
16	4-082-874-01	o GASKET (L TYPE)
17	4-089-590-01	o COVER, EAR
18	4-089-591-01	o PLATE, EARTH
19	4-089-592-01	o SHEET INSULATING (POWER TOP)
20	4-089-596-01	o CAP
21	4-089-603-02	o LABEL, AC/SP
22	4-089-620-01	s BUTTON, CONTROL
23	4-090-180-01	o SHEET INSULATING, (LOWER Q PNL)

Screws/Washers

7-628-000-10	s	SCREW +PSW M6X20
7-682-648-09	s	SCREW +PS 3X8 (EP-FE/ZNBK/CM2)
7-682-948-09	s	SCREW +PSW 3X8
7-682-961-09	s	SCREW +PSW 4X8 (EP-FE/ZNBK/CM2)
7-685-852-01	s	SCREW +BVTP 2X5 (EP-FE/CU,NI,CR)
7-685-647-79	s	SCREW +BVTP 3X10 (EP-FE/ZNBK/CM2)
7-685-648-79	s	SCREW +BVTP 3X12 (EP-FE/ZNBK/CM2)
7-685-663-79	s	SCREW +BVTP 4X16 (EP-FE/ZNBK/CM2)

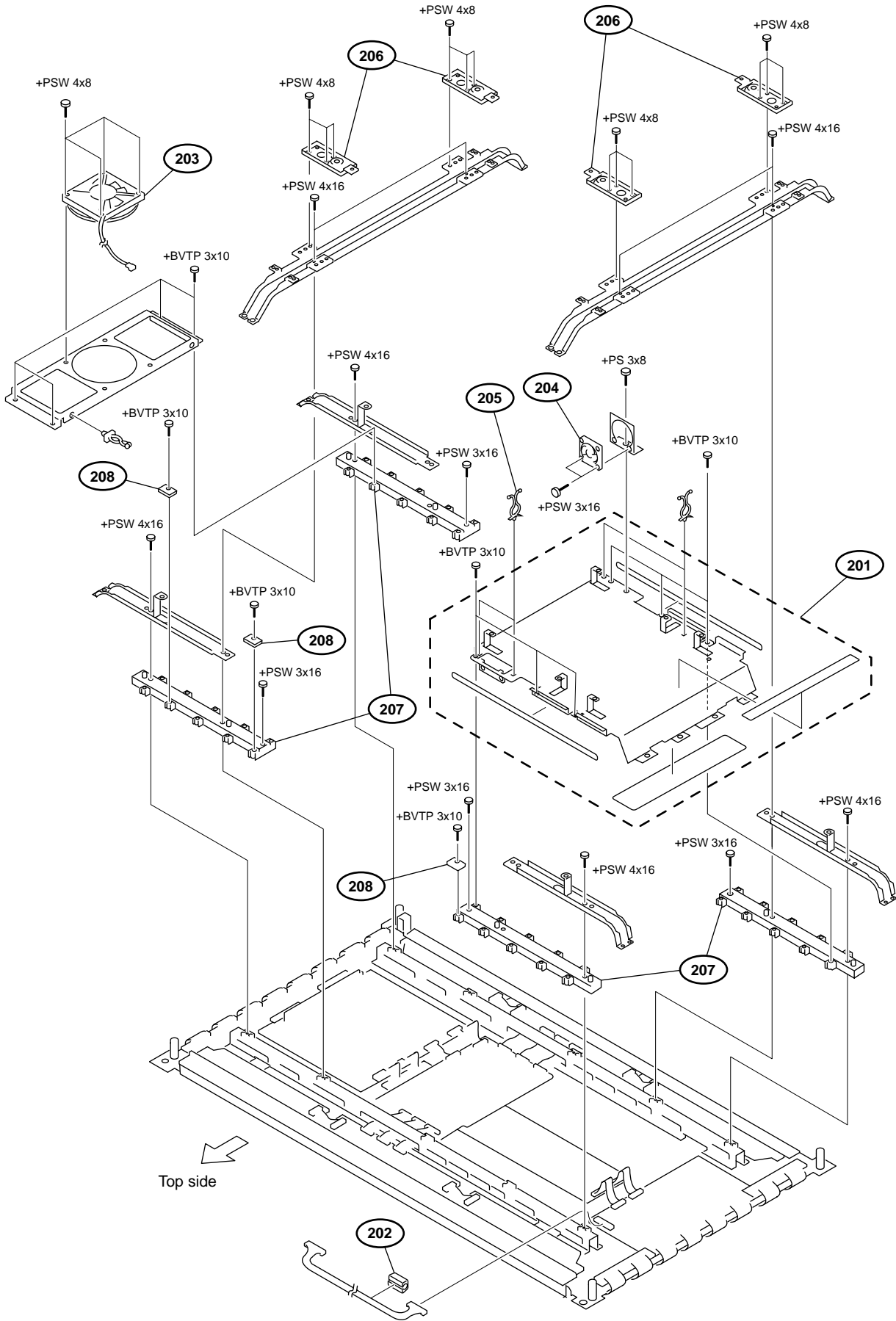
Chassis-1



No.	Part No.	SP Description
101	A-1300-371-A	s MOUNTED CIRCUIT BOARD B
102	A-1401-229-A	s MOUNTED CIRCUIT BOARD Q
103	△ 1-468-690-11	s SWITCHING REGULATOR
104	1-469-241-11	s CORE, FERRITE (RFC-8 BK)
105	1-500-603-11	s CLAMP, FERRITE (RFC-13)
107	1-500-249-21	s BEAD, FERRITE (CASE)(RFC-3)
108	1-763-659-11	s FAN, DC
109	△ 1-816-887-11	s AC INLET(WITH NOISE FILTER)
110	2-990-241-02	s HOLDER (A), PLUG
111	3-701-822-00	s HOLDER, WIRE
112	4-035-160-01	s PURSE LOCK (S) (DIA. 12)
114	4-035-862-01	s CLAMP,FG
115	4-083-966-01	s SCREW, HEXAGON
116	4-089-582-01	o GASKET (Q-M)
117	X-4040-718-1	s Q/B COVER ASSY
118	4-089-621-01	o PANEL, Q
119	4-090-178-01	o SHEET, THERM B-1
120	4-090-179-01	o SHEET, THERM B-2
121	8-330-030-59	s MOUNTED CIRCUIT BOARD SP
122	4-090-795-01	s GASKET IB
123	4-091-031-01	s COPPER TAPE

Screws/Washers

7-628-253-20	s SCREW +PS 2X6
7-682-648-09	s SCREW +PS 3X8 (EP-FE/ZNBK/CM2)
7-682-948-09	s SCREW +PSW 3X8
7-682-950-09	s SCREW +PSW 3X12 (EP-FE/ZNBK/CM2)
7-682-952-01	s SCREW +PSW 3X16 (EP-FE/ZNBK/CM2)
7-682-961-09	s SCREW +PSW 4X8 (EP-FE/ZNBK/CM2)
7-685-647-79	s SCREW +BVTP 3X10 (EP-FE/ZNBK/CM2)

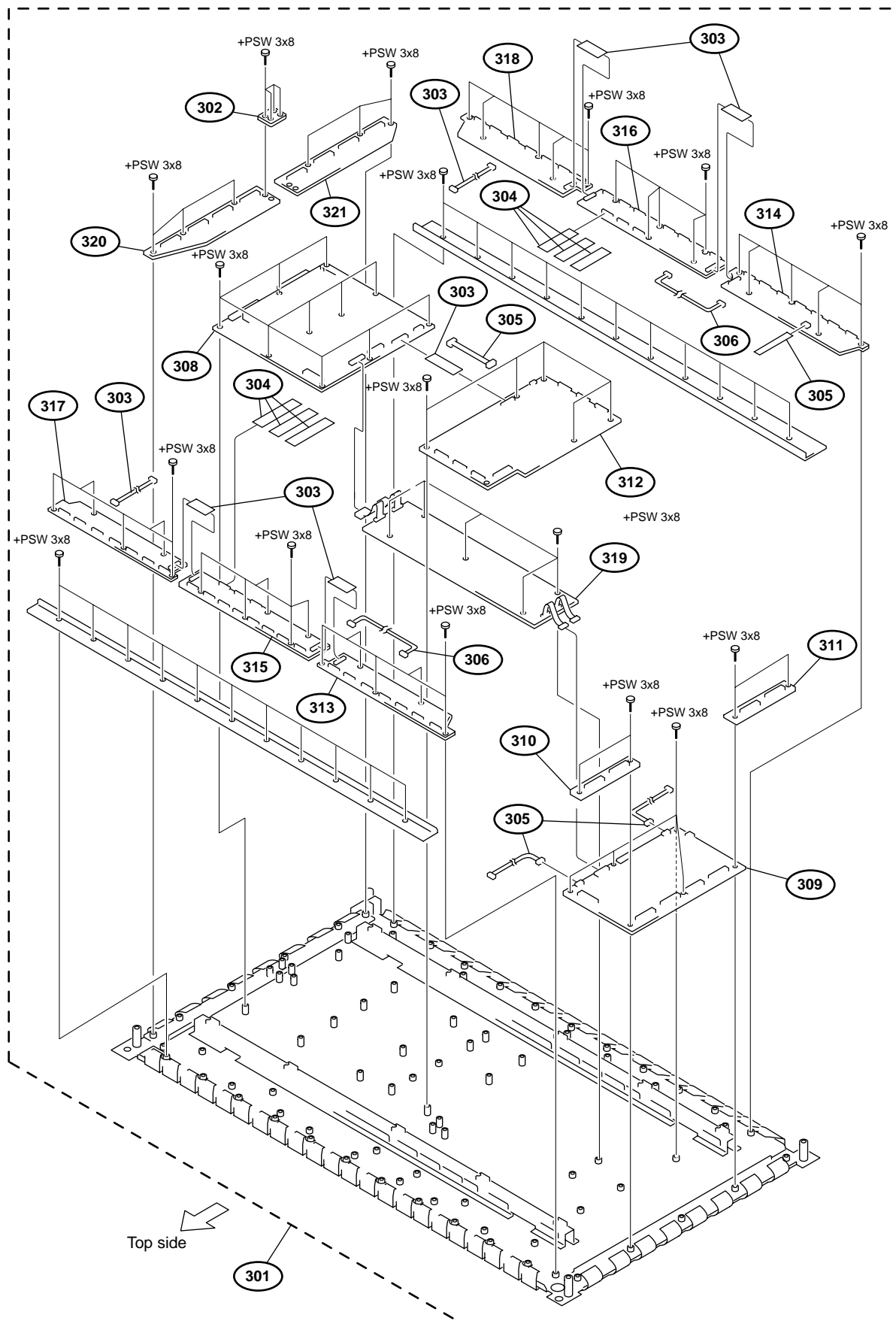


No.	Part No.	SP Description
201	X-4040-604-1	o BRACKET ASSY, Q/B
202	1-469-241-11	s CORE, FERRITE (RFC-8 BK)
203	1-763-808-11	s FAN, DC
204	1-763-659-11	s FAN, DC
205	4-035-160-01	s PURSE LOCK (S) (DIA. 12)
206	4-089-604-01	o SUSPENSION
207	4-089-617-01	o PLATE, POSITIONING
208	8-330-030-56	s MOUNTED CIRCUIT BOARD S

Screws/Washers

7-682-648-09	s	SCREW +PS 3X8 (EP-FE/ZNBK/CM2)
7-682-952-01	s	SCREW +PSW 3X16 (EP-FE/ZNBK/CM2)
7-682-961-09	s	SCREW +PSW 4X8 (EP-FE/ZNBK/CM2)
7-685-647-79	s	SCREW +BVTP 3X10 (EP-FE/ZNBK/CM2)
7-685-663-79	s	SCREW +BVTP 4X16 (EP-FE/ZNBK/CM2)

Plasma Display

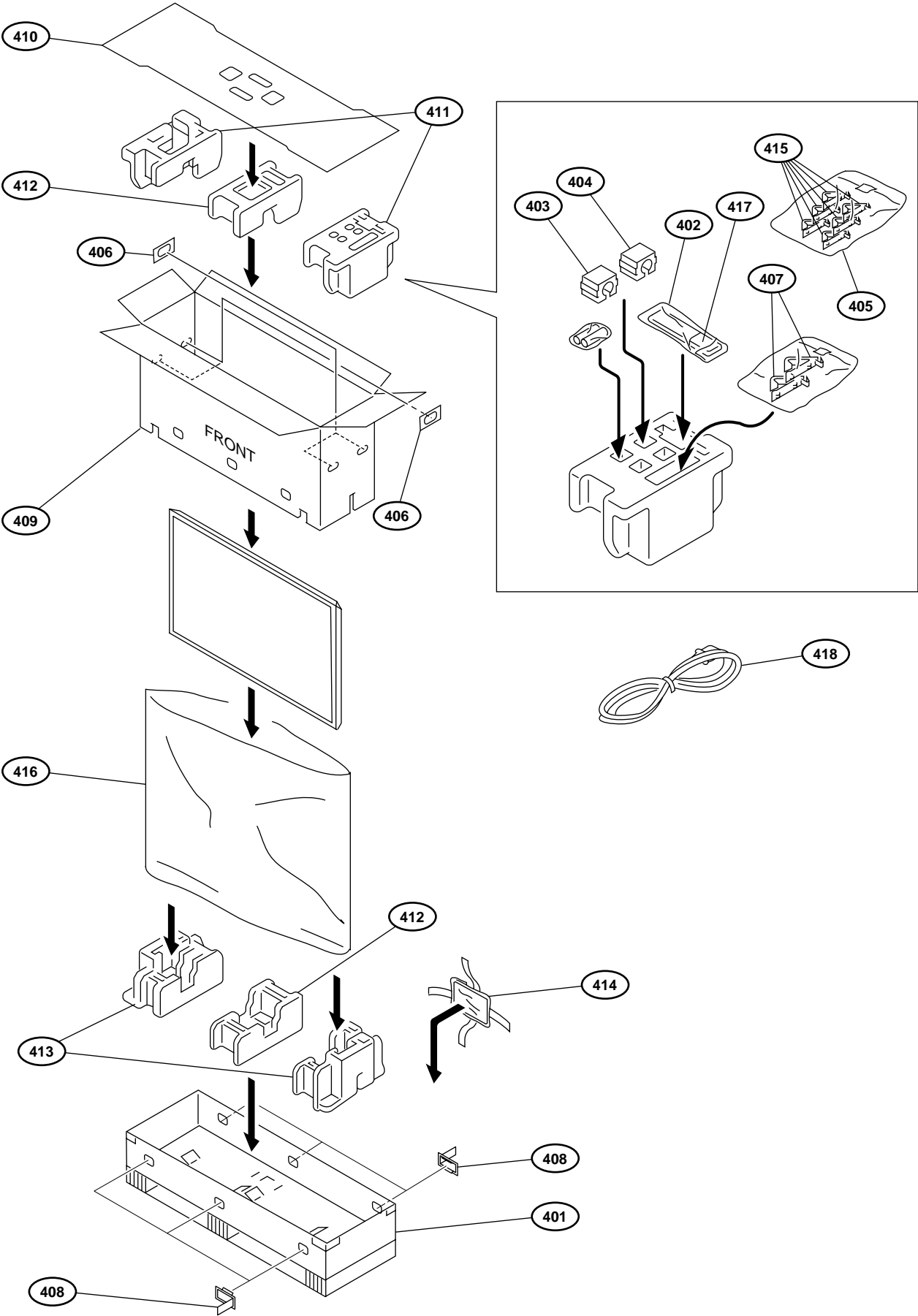


No.	Part No.	SP Description
301	9-885-026-95	o PLASMA DISPLAY PANEL (50INCH)
302	9-885-022-90	o SCAN JOINT-JOINT PKG
303	9-885-022-91	o CBL50C2-01
304	9-885-022-92	o CBL50C2-03
305	9-885-022-93	o CBL50B2-03
306	9-885-022-94	o CBL50C2-04
308	9-885-022-96	o SCAN PKG
309	9-885-022-97	o COMMON PKG
310	9-885-022-98	o COMMON JOINT PKG (U)
311	9-885-022-99	o COMMON JOINT PKG (L)
312	9-885-023-00	o DIGITAL PKG
313	9-885-023-01	o SIGNAL JOINT PKG (LU)
314	9-885-023-02	o SIGNAL JOINT PKG (LL)
315	9-885-023-03	o SIGNAL JOINT PKG (MU)
316	9-885-023-04	o SIGNAL JOINT PKG (ML)
317	9-885-023-05	o SIGNAL JOINT PKG (RU)
318	9-885-023-06	o SIGNAL JOINT PKG (RL)
319	9-885-023-07	o COLLECTION JOINT PKG
320	9-885-023-08	o SCAN JOINT PKG (A)
321	9-885-023-09	o SCAN JOINT PKG (B)

Screws/Washers

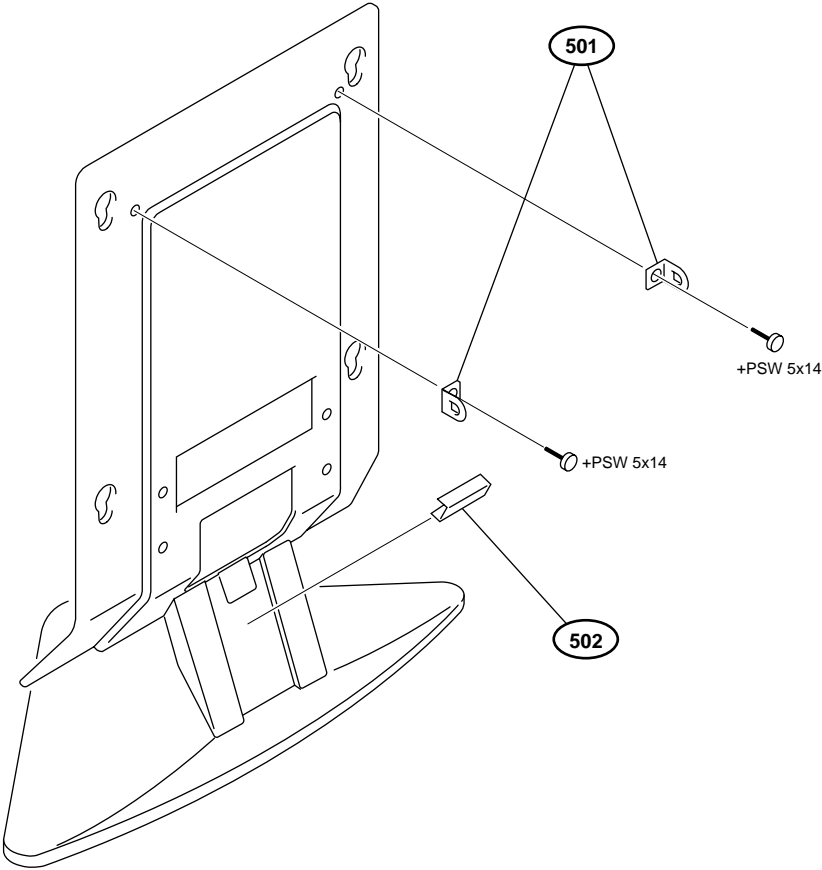
7-682-948-09 s SCREW +PSW 3X8

Packing



No.	Part No.	SP Description
401	X-4040-217-1	o BASE TRAY ASSY
402	1-477-278-11	s REMOTE COMMANDER(RM-971)
403	2-990-242-01	s HOLDER(B), PLUG
404	3-613-640-01	o HOLDER(C), PLUG
405	3-701-617-00	s BAG, PROTECTION
406	3-704-066-01	o HANDLE (B)
407	4-081-316-01	s HOLDER, CABLE
408	4-030-895-01	o JOINT
409	4-088-232-01	o INDIVIDUAL CARTON
410	4-088-234-01	o BOARD, TOP
411	4-088-236-01	o CUSHION (UPPER)
412	4-088-237-01	o CUSHION (MIDDLE)
413	4-088-238-01	o CUSHION (LOWER)
414	4-089-578-01	o MANUAL, INSTRUCTION (JAPANESE, ENGLISH, FRENCH, SPANISH, GERMAN, ITALIAN, SIMPLIFIED CHINESE)
415	4-089-597-01	o HOLDER, CABLE
416	4-089-688-01	s BAG, PROTECTION
417	4-978-977-01	s LID, BATTERY CASE
418	▲ See Page 1-24. Warning on Power Connection	

FLAT PANEL DISPLAY STAND



No.	Part No.	SP Description
501	4-087-329-01	s BRACKET, HOOK
502	4-087-524-01	o CLAMPER, CORD

Screws/Washers

7-682-973-39 s SCREW +PSW 5X14

5-3. Electrical Parts List

APS-184 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
C101	△ 1-125-933-51	s	CAP, METALIZED FILM 1.0MF
C106	1-127-822-51	s	CAP, METALIZED FILM 1.0MF
C107	△ 1-125-933-51	s	CAP, METALIZED FILM 1.0MF
C108	1-165-127-11	s	CAPACITOR,CERAMIC 470PF/500V(S
C109	1-165-127-11	s	CAPACITOR,CERAMIC 470PF/500V(S
C110	1-163-021-11	s	CAPACITOR, CERAMIC 0.01MF/50V
C111	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C112	1-137-985-11	s	CAPACITOR,ELECT 390MF
C114	△ 1-113-920-11	s	CAPACITOR,CERAMIC 2200PF/250V
C115	1-117-350-11	s	CAPACITOR ELECT 56MF/35V 105C
C116	△ 1-113-920-11	s	CAPACITOR,CERAMIC 2200PF/250V
C117	△ 1-113-920-11	s	CAPACITOR,CERAMIC 2200PF/250V
C118	1-136-165-00	s	CAPACITOR,FILM 0.1MF/50V (PP)
C121	1-131-858-11	s	CAPACITOR,METALIZED 0.0039MF
C122	1-117-352-11	s	CAPACITOR,ELECT 150MF/35V
C123	1-117-350-11	s	CAPACITOR ELECT 56MF/35V 105C
C126	1-117-350-11	s	CAPACITOR ELECT 56MF/35V 105C
C127	1-163-009-11	s	CAPACITOR,CERAMIC 1000PF/50V
C128	1-163-009-11	s	CAPACITOR,CERAMIC 1000PF/50V
C129	1-163-009-11	s	CAPACITOR,CERAMIC 1000PF/50V
C130	1-107-907-11	s	CAPACITOR,ELECT 22MF/50V
C131	1-115-340-11	s	CAPACITOR CERAMIC 0.22MF/25V B
C132	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C133	1-163-263-11	s	CAPACITOR CERAMIC 330PF/50V
C134	1-163-017-00	s	CAPACITOR,CHIP CERAMIC 4700PF
C135	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C136	1-136-165-00	s	CAPACITOR,FILM 0.1MF/50V (PP)
C141	1-127-761-11	s	CAP, ELECT 0.0082MF
C142	1-163-009-11	s	CAPACITOR,CERAMIC 1000PF/50V
C143	1-163-009-11	s	CAPACITOR,CERAMIC 1000PF/50V
C144	1-163-009-11	s	CAPACITOR,CERAMIC 1000PF/50V
C145	1-107-907-11	s	CAPACITOR,ELECT 22MF/50V
C146	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C147	1-107-902-11	s	CAPACITOR,ELECT 1MF/50V
C148	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C149	1-163-263-11	s	CAPACITOR CERAMIC 330PF/50V
C150	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C151	1-136-165-00	s	CAPACITOR,FILM 0.1MF/50V (PP)
C156	1-131-918-11	s	CAP, METALIZED FILM 0.01MF
C157	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C158	1-127-822-51	s	CAP, METALIZED FILM 1.0MF
C159	1-127-822-51	s	CAP, METALIZED FILM 1.0MF
C160	1-163-009-11	s	CAPACITOR,CERAMIC 1000PF/50V
C161	1-163-009-11	s	CAPACITOR,CERAMIC 1000PF/50V
C162	1-163-009-11	s	CAPACITOR,CERAMIC 1000PF/50V
C163	1-107-907-11	s	CAPACITOR,ELECT 22MF/50V
C165	1-115-340-11	s	CAPACITOR CERAMIC 0.22MF/25V B
C166	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C167	1-163-263-11	s	CAPACITOR CERAMIC 330PF/50V
C168	1-163-017-00	s	CAPACITOR,CHIP CERAMIC 4700PF
C169	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C170	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C177	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C179	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C180	1-137-985-11	s	CAPACITOR,ELECT 390MF
C186	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C187	1-163-009-11	s	CAPACITOR,CERAMIC 1000PF/50V
C201	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C202	1-137-991-21	s	CAPACITOR,ELECT 3900MF

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Ref. No. or Q'ty	Part No.	SP	Description
C203	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C205	1-115-811-11	s	CAPACITOR ELECT 560MF/35V(105)
C206	1-137-991-21	s	CAPACITOR,ELECT 3900MF
C207	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C208	1-107-877-11	s	CAPACITOR, ELECT 1000MF/10V
C209	1-137-991-21	s	CAPACITOR,ELECT 3900MF
C210	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C212	1-117-352-11	s	CAPACITOR,ELECT 150MF/35V
C213	1-135-362-31	s	CAP, ELECT 1500MF
C214	1-128-954-11	s	CAP, ELECT 1000MF
C215	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C216	1-117-323-91	s	CAP, ELECT 82MF
C217	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C218	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C219	1-104-652-11	s	CAPACITOR,ELECT 470MF/10V(105)
C220	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C221	1-128-528-11	s	CAPACITOR, ELECT 470MF/25V
C222	1-107-887-11	s	CAPACITOR ELECT 10000MF/16V
C223	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C224	1-117-353-91	s	CAPACITOR ELECT 220MF/35V(105)
C225	1-115-340-11	s	CAPACITOR CERAMIC 0.22MF/25V B
C226	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C227	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C228	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C229	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C230	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C231	1-107-909-11	s	CAPACITOR,ELECT 47MF/50V
C233	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C234	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C235	1-107-903-11	s	CAPACITOR,ELECT 2.2MF/50V
C236	1-107-882-11	s	CAPACITOR,ELECT 100MF 16V
C237	1-104-652-11	s	CAPACITOR,ELECT 470MF/10V(105)
C238	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C239	1-104-652-11	s	CAPACITOR,ELECT 470MF/10V(105)
C240	1-104-652-11	s	CAPACITOR,ELECT 470MF/10V(105)
C241	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C242	1-104-652-11	s	CAPACITOR,ELECT 470MF/10V(105)
C243	1-107-906-11	s	CAPACITOR,ELECT 10MF/50V(105)
C244	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C245	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C246	1-107-887-11	s	CAPACITOR ELECT 10000MF/16V
C247	1-107-905-11	s	CAPACITOR,ELECT 4.7MF/50V
C248	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C249	1-107-905-11	s	CAPACITOR,ELECT 4.7MF/50V
C250	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C251	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C252	1-107-887-11	s	CAPACITOR ELECT 10000MF/16V
C253	1-107-887-11	s	CAPACITOR ELECT 10000MF/16V
C254	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C301	1-109-982-11	s	CAPACITOR,CHIP CERAMIC 1MF/10V
C302	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C303	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C304	1-107-909-11	s	CAPACITOR,ELECT 47MF/50V
C305	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C306	1-163-009-11	s	CAPACITOR,CERAMIC 1000PF/50V
C307	1-163-009-11	s	CAPACITOR,CERAMIC 1000PF/50V
C308	1-163-005-11	s	CAPACITOR CHIP CERAMIC 470PF
C309	1-163-009-11	s	CAPACITOR,CERAMIC 1000PF/50V
C310	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF

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Ref. No. or Q'ty	Part No.	SP Description
C311	1-117-352-11	s CAPACITOR,ELECT 150MF/35V
C312	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C313	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C314	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C315	1-104-760-11	s CAPACITOR CERAMIC 0.047MF/50V
C316	1-163-145-00	s CAPACITOR,CHIP CERAMIC 1500PF
C317	1-109-982-11	s CAPACITOR,CHIP CERAMIC 1MF/10V
C318	1-163-275-11	s CAPACITOR CERAMIC 1000PF/50V
C319	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C320	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C321	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C322	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C323	1-107-906-11	s CAPACITOR,ELECT 10MF/50V(105)
C324	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C325	1-115-339-11	s CAPACITOR, CERAMIC 0.1MF/50V
C326	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C328	1-163-263-11	s CAPACITOR,CERAMIC 330MF/50V
C401	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C402	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C403	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C404	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C405	1-165-917-11	s CAP, ELECT 1000MF
C407	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C408	1-104-760-11	s CAPACITOR CERAMIC 0.047MF/50V
C409	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C410	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C411	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C412	1-107-904-11	s CAPACITOR,ELECT 3.3MF/50V
C413	1-104-653-11	s CAPACITOR ELECT 220MF/16V(105)
C414	1-107-905-11	s CAPACITOR,ELECT 4.7MF/50V
C415	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C416	1-107-905-11	s CAPACITOR,ELECT 4.7MF/50V(105)
C417	1-107-905-11	s CAPACITOR,ELECT 4.7MF/50V(105)
C418	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C419	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C420	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C421	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C422	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C423	1-107-906-11	s CAPACITOR,ELECT 10MF/50V(105)
C424	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C425	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C426	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C427	1-165-978-11	s CAP, ELECT 1500UF
C428	1-165-978-11	s CAP, ELECT 1500UF
C430	1-163-009-11	s CAPACITOR,CERAMIC 1000PF/50V
C501	1-136-165-00	s CAPACITOR,FILM 0.1MF/50V (PP)
C504	1-163-005-11	s CAPACITOR CHIP CERAMIC 470PF
C505	1-163-005-11	s CAPACITOR CHIP CERAMIC 470PF
C510	1-163-009-11	s CAPACITOR,CERAMIC 1000PF/50V
C511	1-163-009-11	s CAPACITOR,CERAMIC 1000PF/50V
C512	1-131-924-11	s CAP, METALIZED FILM 0.068MF
C513	1-131-924-11	s CAP, METALIZED FILM 0.068MF
C514	1-131-924-11	s CAP, METALIZED FILM 0.068MF
C601	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C602	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C603	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C606	1-164-645-11	s CAPACITOR,CERAMIC 1000PF/500V
C607	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C608	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V

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Ref. No. or Q'ty	Part No.	SP Description
C609	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C610	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C611	1-131-945-11	s CAP, ELECT 470MF / 100 V
C612	1-131-945-11	s CAP, ELECT 470MF / 100 V
C613	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C614	1-107-902-11	s CAPACITOR,ELECT 1MF/50V
C615	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C616	1-131-945-11	s CAP, ELECT 470MF / 100 V
C701	1-136-165-00	s CAPACITOR,FILM 0.1MF/50V (PP)
C713	1-125-916-11	s CAP, METALIZED FILM 0.018MF
C901	1-163-009-11	s CAPACITOR,CERAMIC 1000PF/50V
C902	1-163-009-11	s CAPACITOR,CERAMIC 1000PF/50V
C903	1-163-009-11	s CAPACITOR,CERAMIC 1000PF/50V
C904	1-107-907-11	s CAPACITOR,ELECT 22MF/50V
C905	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C906	1-115-340-11	s CAPACITOR CERAMIC 0.22MF/25V B
C907	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C908	1-163-263-11	s CAPACITOR CERAMIC 330PF/50V
C909	1-163-017-00	s CAPACITOR,CHIP CERAMIC 4700PF
C910	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C950	1-163-009-11	s CAPACITOR,CERAMIC 1000PF/50V
C951	1-163-009-11	s CAPACITOR,CERAMIC 1000PF/50V
C952	1-163-009-11	s CAPACITOR,CERAMIC 1000PF/50V
C953	1-107-907-11	s CAPACITOR,ELECT 22MF/50V
C954	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C955	1-115-340-11	s CAPACITOR CERAMIC 0.22MF/25V B
C956	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C957	1-163-263-11	s CAPACITOR CERAMIC 330PF/50V
C958	1-163-017-00	s CAPACITOR,CHIP CERAMIC 4700PF
C959	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
CN9001	1-580-843-11	s PIN, CONNECTOR (POWER)
CN9002	1-779-092-11	s PIN, CONNECTOR (PC BOARD) 10P
CN9003	1-766-177-11	o PIN, CONNECTOR (PC BOARD) 9P
CN9005	1-564-717-11	o PIN,CONNECTOR (15P)
CN9006	1-564-706-11	o PIN,CONNECTOR (4P)
D102	8-719-991-33	s DIODE 1SS133T-77
D103	△ 8-719-055-11	s DIODE 05NH46(TPA3)
D104	△ 8-719-073-32	s DIODE D25XB60
D105	△ 8-719-055-11	s DIODE 05NH46(TPA3)
D106	8-719-071-81	s DIODE HZU30BTRF
D107	8-719-988-61	s DIODE 1SS355TE-17
D108	8-719-988-61	s DIODE 1SS355TE-17
D109	8-719-073-58	s DIODE 20JL2C41A
D110	8-719-988-61	s DIODE 1SS355TE-17
D111	8-719-988-61	s DIODE 1SS355TE-17
D112	8-719-988-61	s DIODE 1SS355TE-17
D113	8-719-988-61	s DIODE 1SS355TE-17
D114	8-719-988-61	s DIODE 1SS355TE-17
D115	8-719-988-61	s DIODE 1SS355TE-17
D116	8-719-988-61	s DIODE 1SS355TE-17
D117	8-719-988-61	s DIODE 1SS355TE-17
D118	8-719-071-81	s DIODE HZU30BTRF
D119	8-719-914-44	s DIODE DAP202K (DUAL)
D122	8-719-931-29	s DIODE HZS20NTD
D124	8-719-063-70	s DIODE D1NL20U
D125	8-719-914-43	s DIODE DAN202K
D126	8-719-988-61	s DIODE 1SS355TE-17
D151	8-719-988-61	s DIODE 1SS355TE-17
D152	8-719-988-61	s DIODE 1SS355TE-17

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Ref. No. or Q'ty	Part No.	SP	Description	
D160	8-719-988-61	s	DIODE 1SS355TE-17	
D161	8-719-988-61	s	DIODE 1SS355TE-17	
D162	8-719-914-43	s	DIODE DAN202K	
D201	8-719-071-07	s	DIODE FCQ20A03L	
D202	8-719-063-70	s	DIODE D1NL20U	
D203	8-719-988-61	s	DIODE 1SS355TE-17	
D204	8-719-082-75	s	DIODE FCH08A10	
D205	8-719-082-75	s	DIODE FCH08A10	
D206	8-719-079-00	s	DIODE FCH10A15	
D207	8-719-071-66	s	DIODE HZU6.8BTRF	
D208	8-719-988-61	s	DIODE 1SS355TE-17	
D209	8-719-082-75	s	DIODE FCH08A10	
D210	8-719-071-81	s	DIODE HZU30BTRF	
D211	8-719-988-61	s	DIODE 1SS355TE-17	
D212	8-719-914-43	s	DIODE DAN202K	
D213	8-719-060-28	s	DIODE HZU7.5BTRF	
D214	8-719-071-63	s	DIODE HZU6.2BTRF	
D215	8-719-914-43	s	DIODE DAN202K	
D216	8-719-914-44	s	DIODE DAP202K	(DUAL)
D217	8-719-914-43	s	DIODE DAN202K	
D218	8-719-988-61	s	DIODE 1SS355TE-17	
D219	8-719-060-28	s	DIODE HZU7.5BTRF	
D220	8-719-071-81	s	DIODE HZU30BTRF	
D221	8-719-988-61	s	DIODE 1SS355TE-17	
D222	8-719-988-61	s	DIODE 1SS355TE-17	
D223	8-719-914-44	s	DIODE DAP202K	(DUAL)
D225	8-719-988-61	s	DIODE 1SS355TE-17	
D226	8-719-071-60	s	DIODE HZU3.3BTRF	
D227	8-719-988-61	s	DIODE 1SS355TE-17	
D228	8-719-060-28	s	DIODE HZU7.5BTRF	
D229	8-719-988-61	s	DIODE 1SS355TE-17	
D301	8-719-060-28	s	DIODE HZU7.5BTRF	
D302	8-719-071-94	s	DIODE HRU0103ATRF	
D303	8-719-071-94	s	DIODE HRU0103ATRF	
D304	8-719-060-28	s	DIODE HZU7.5BTRF	
D305	8-719-071-94	s	DIODE HRU0103ATRF	
D306	8-719-988-61	s	DIODE 1SS355TE-17	
D307	8-719-988-61	s	DIODE 1SS355TE-17	
D308	8-719-988-61	s	DIODE 1SS355TE-17	
D310	8-719-988-61	s	DIODE 1SS355TE-17	
D401	8-719-073-58	s	DIODE 20JL2C41A	
D402	8-719-060-28	s	DIODE HZU7.5BTRF	
D403	8-719-914-44	s	DIODE DAP202K	(DUAL)
D404	8-719-988-61	s	DIODE 1SS355TE-17	
D405	8-719-060-28	s	DIODE HZU7.5BTRF	
D406	8-719-914-44	s	DIODE DAP202K	(DUAL)
D407	8-719-988-61	s	DIODE 1SS355TE-17	
D408	8-719-988-61	s	DIODE 1SS355TE-17	
D409	8-719-988-61	s	DIODE 1SS355TE-17	
D410	8-719-060-28	s	DIODE HZU7.5BTRF	
D411	8-719-988-61	s	DIODE 1SS355TE-17	
D412	8-719-988-61	s	DIODE 1SS355TE-17	
D413	8-719-060-28	s	DIODE HZU7.5BTRF	
D414	8-719-988-61	s	DIODE 1SS355TE-17	
D501	8-719-988-61	s	DIODE 1SS355TE-17	
D502	8-719-988-61	s	DIODE 1SS355TE-17	
D601	8-719-060-28	s	DIODE HZU7.5BTRF	
D602	8-719-079-01	s	DIODE FRH10A15	
D603	8-719-060-28	s	DIODE HZU7.5BTRF	

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Ref. No. or Q'ty	Part No.	SP	Description	
D604	8-719-914-44	s	DIODE DAP202K	(DUAL)
D605	8-719-988-61	s	DIODE 1SS355TE-17	
D606	8-719-988-61	s	DIODE 1SS355TE-17	
D701	8-719-988-61	s	DIODE 1SS355TE-17	
D702	8-719-988-61	s	DIODE 1SS355TE-17	
D901	8-719-988-61	s	DIODE 1SS355TE-17	
D902	8-719-914-44	s	DIODE DAP202K	(DUAL)
D950	8-719-988-61	s	DIODE 1SS355TE-17	
D952	8-719-914-43	s	DIODE DAN202K	
F101	▲ 1-576-567-11	s	FUSE (15A)	
IC101	8-759-470-07	s	IC CXA8038AP	
IC102	8-759-470-07	s	IC CXA8038AP	
IC150	8-759-470-07	s	IC CXA8038AP	
IC201	8-759-692-71	s	IC TA78L018AP(TPE6)	
IC202	8-759-520-49	s	IC PQ30RV21	
IC203	8-759-324-03	s	IC HA17431UA(TL)	
IC204	8-759-324-03	s	IC HA17431UA(TL)	
IC205	8-759-324-03	s	IC HA17431UA(TL)	
IC207	8-759-431-22	s	IC LM324DT	
IC208	8-759-510-71	s	IC BA10358F-E2	
IC209	8-759-520-49	s	IC PQ30RV21	
IC210	6-701-846-01	s	IC LMV358MX	
IC211	8-759-947-34	s	IC LM35DZ	
IC301	8-759-354-43	s	IC TK83854D	
IC302	8-759-060-02	s	IC BA10324AF	
IC303	8-759-324-03	s	IC HA17431UA(TL)	
IC401	8-759-510-71	s	IC BA10358F-E2	
IC402	8-759-324-03	s	IC HA17431UA(TL)	
IC403	8-759-431-22	s	IC LM324DT	
IC601	8-759-510-71	s	IC BA10358F-E2	
IC602	8-759-324-03	s	IC HA17431UA(TL)	
IC901	8-759-470-07	s	IC CXA8038AP	
IC950	8-759-470-07	s	IC CXA8038AP	
L101	1-428-994-11	s	COIL, CHOKE (STP-01084)	
L102	1-424-932-12	s	COIL, CHOKE (PFC EE40CL010)	
L103	1-424-932-12	s	COIL, CHOKE (PFC EE40CL010)	
L201	1-406-703-11	s	COIL, CHOKE(PC8-3R3M) 3.3UH	
L202	1-412-521-31	s	MICRO INDUCTOR 4.7UH	
L203	1-406-703-11	s	COIL, CHOKE(PC8-3R3M) 3.3UH	
L204	1-406-703-11	s	COIL, CHOKE(PC8-3R3M) 3.3UH	
L205	1-406-703-11	s	COIL, CHOKE(PC8-3R3M) 3.3UH	
L206	1-412-521-31	s	MICRO INDUCTOR 4.7UH	
L207	1-412-521-31	s	MICRO INDUCTOR 4.7UH	
L401	1-428-893-11	s	COIL, CHOKE (CH BS06030X2ZPBF)	
L402	1-416-616-11	s	COIL, CHOKE (CH71512) 2.2UH	
L501	1-428-939-11	s	COIL, CHOKE (CH EE40S(VS))	
L601	1-406-703-11	s	COIL, CHOKE(PC8-3R3M) 3.3UH	
PH101	8-749-924-80	o	PHOTO COUPLER PS2561L1-1-V	
PH102	8-749-924-80	o	PHOTO COUPLER PS2561L1-1-V	
PH103	8-749-924-80	o	PHOTO COUPLER PS2561L1-1-V	
PH104	8-749-924-80	o	PHOTO COUPLER PS2561L1-1-V	
PH106	8-749-924-80	o	PHOTO COUPLER PS2561L1-1-V	
PH107	8-749-924-80	o	PHOTO COUPLER PS2561L1-1-V	
PH108	8-749-924-80	o	PHOTO COUPLER PS2561L1-1-V	
PH110	8-749-924-80	o	PHOTO COUPLER PS2561L1-1-V	
PH111	8-749-924-80	o	PHOTO COUPLER PS2561L1-1-V	
PH901	8-749-924-80	o	PHOTO COUPLER PS2561L1-1-V	

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Ref. No. or Q'ty	Part No.	SP	Description
PH902	8-749-924-80	o	PHOTO COUPLER PS2561L1-1-V
PH903	8-749-924-80	o	PHOTO COUPLER PS2561L1-1-V
PH950	8-749-924-80	o	PHOTO COUPLER PS2561L1-1-V
PH951	8-749-924-80	o	PHOTO COUPLER PS2561L1-1-V
Q100	8-729-053-48	s	TRANSISTOR 2SK3235
Q101	8-729-053-48	s	TRANSISTOR 2SK3235
Q102	8-729-053-48	s	TRANSISTOR 2SK3235
Q103	8-729-903-46	s	TRANSISTOR 2SB1132-P
Q104	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q105	8-729-018-75	s	TRANSISTOR 2SJ278MY
Q107	6-550-074-01	s	TRANSISTOR 2SK3316
Q108	6-550-074-01	s	TRANSISTOR 2SK3316
Q109	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q110	8-729-424-08	s	TRANSISTOR UN2111
Q112	6-550-074-01	s	TRANSISTOR 2SK3316
Q113	6-550-074-01	s	TRANSISTOR 2SK3316
Q116	8-729-209-15	s	TRANSISTOR 2SD2012
Q153	6-550-074-01	s	TRANSISTOR 2SK3316
Q154	6-550-074-01	s	TRANSISTOR 2SK3316
Q201	8-729-421-22	s	TRANSISTOR UN2211
Q202	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q203	8-729-421-22	s	TRANSISTOR UN2211
Q204	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q205	8-729-045-62	s	TRANSISTOR 2SK2158-T2B
Q206	8-729-045-62	s	TRANSISTOR 2SK2158-T2B
Q207	8-729-045-62	s	TRANSISTOR 2SK2158-T2B
Q208	8-729-045-62	s	TRANSISTOR 2SK2158-T2B
Q209	8-729-421-22	s	TRANSISTOR UN2211
Q210	8-729-421-22	s	TRANSISTOR UN2211
Q211	8-729-421-22	s	TRANSISTOR UN2211
Q212	8-729-421-22	s	TRANSISTOR UN2211
Q213	8-729-045-62	s	TRANSISTOR 2SK2158-T2B
Q214	8-729-045-62	s	TRANSISTOR 2SK2158-T2B
Q215	8-729-424-08	s	TRANSISTOR UN2111
Q216	8-729-421-22	s	TRANSISTOR UN2211
Q217	8-729-045-62	s	TRANSISTOR 2SK2158-T2B
Q218	8-729-421-22	s	TRANSISTOR UN2211
Q219	8-729-045-62	s	TRANSISTOR 2SK2158-T2B
Q220	8-729-903-46	s	TRANSISTOR 2SB1132-P
Q221	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q222	8-729-047-67	s	TRANSISTOR 2SK3142-01
Q223	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q301	8-729-903-46	s	TRANSISTOR 2SB1132-P
Q302	8-729-040-89	s	TRANSISTOR 2SK1590-T1B
Q303	8-729-040-88	s	TRANSISTOR 2SB1240TV2QR
Q304	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q305	8-729-421-22	s	TRANSISTOR UN2211
Q306	8-729-040-23	s	TRANSISTOR 2SD1862TV2QR
Q307	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q308	8-729-040-89	s	TRANSISTOR 2SK1590-T1B
Q309	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q310	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q401	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q402	8-729-045-62	s	TRANSISTOR 2SK2158-T2B
Q403	8-729-045-62	s	TRANSISTOR 2SK2158-T2B
Q404	8-729-045-62	s	TRANSISTOR 2SK2158-T2B
Q405	8-729-421-22	s	TRANSISTOR UN2211
Q406	8-729-045-62	s	TRANSISTOR 2SK2158-T2B
Q407	8-729-421-22	s	TRANSISTOR UN2211

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Ref. No. or Q'ty	Part No.	SP	Description
Q408	6-550-138-01	s	TRANSISTOR FS20KM-5
Q409	8-729-045-62	s	TRANSISTOR 2SK2158-T2B
Q410	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q411	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q501	8-729-141-48	s	TRANSISTOR 2SB624-BV345
Q502	8-729-141-48	s	TRANSISTOR 2SB624-BV345
Q503	8-729-053-48	s	TRANSISTOR 2SK3235
Q504	8-729-053-48	s	TRANSISTOR 2SK3235
Q601	8-729-045-62	s	TRANSISTOR 2SK2158-T2B
Q602	8-729-045-62	s	TRANSISTOR 2SK2158-T2B
Q603	8-729-045-62	s	TRANSISTOR 2SK2158-T2B
Q604	8-729-050-53	s	TRANSISTOR 2SK3212-01
Q703	8-729-046-51	o	TRANSISTOR FK10KM-10
Q704	8-729-046-51	o	TRANSISTOR FK10KM-10
R101	△ 1-244-313-11	s	RES, CEMENT-COATED 10
R102	△ 1-260-131-11	s	RES, CARBON (SMALL TYPE) 470K
R103	1-242-956-31	s	RES, METAL PLATE 0.02
R105	1-216-308-00	s	RESISTOR,CHIP 4.7 1/10W(2012)
R106	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R107	1-216-308-00	s	RESISTOR,CHIP 4.7 1/10W(2012)
R108	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R109	1-215-882-00	s	RESISTOR,METAL FILM 22/2W
R110	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R111	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R112	1-247-807-31	s	RESISTOR,CARBON 100 1/4W
R114	1-215-903-11	s	RESISTOR,METAL FILM 68K/2W
R115	1-215-903-11	s	RESISTOR,METAL FILM 68K/2W
R116	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R117	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R118	1-216-345-11	s	RESISTOR,METAL FILM 0.47 1W
R119	1-216-077-00	s	RESISTOR,CHIP 15K 1/10W(2012)
R120	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R121	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R122	1-249-413-11	s	RESISTOR,CARBON 470 1/4W SMALL
R123	1-249-401-11	s	RES,CARBON 47 1/4W (SMALL)
R124	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R125	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R126	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R127	1-216-121-00	s	RESISTOR CHIP 1M 1/10W(2012)
R128	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R129	1-216-061-00	s	RESISTOR CHIP 3.3K 1/10W(2012)
R130	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R131	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R132	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R133	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R134	1-216-070-00	s	RESISTOR,CHIP 7.5K 1/10W(2012)
R135	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R136	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R137	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R138	1-216-121-00	s	RESISTOR CHIP 1M 1/10W(2012)
R139	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R140	1-216-069-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R141	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R142	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R143	1-216-061-00	s	RESISTOR CHIP 3.3K 1/10W(2012)
R144	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R145	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R147	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R148	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R149	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R150	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R151	1-247-807-31	s	RESISTOR,CARBON 100 1/4W
R153	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R154	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R155	1-216-343-00	s	RESISTOR,METAL FILM 0.33 1W
R156	1-216-109-00	s	RESISTOR CHIP 330K 1/10W(2012)
R157	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R158	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R159	1-216-343-00	s	RESISTOR,METAL FILM 0.33 1W
R162	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R163	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R165	1-216-121-00	s	RESISTOR CHIP 1M 1/10W(2012)
R166	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R167	1-216-061-00	s	RESISTOR CHIP 3.3K 1/10W(2012)
R168	1-216-083-00	s	RESISTOR CHIP 27K 1/10W(2012)
R169	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R170	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R171	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R172	1-216-109-00	s	RESISTOR CHIP 330K 1/10W(2012)
R173	1-216-308-00	s	RESISTOR,CHIP 4.7 1/10W(2012)
R174	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R175	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R176	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R177	1-249-401-11	s	RES,CARBON 47 1/4W (SMALL)
R178	1-247-807-31	s	RESISTOR,CARBON 100 1/4W
R179	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R180	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R181	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R194	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R198	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R199	1-249-401-11	s	RES,CARBON 47 1/4W (SMALL)
R201	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R202	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R204	1-216-071-00	s	RESISTOR,CHIP 8.2K 1/10W(2012)
R205	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R206	1-216-071-00	s	RESISTOR,CHIP 8.2K 1/10W(2012)
R207	1-216-053-00	s	RESISTOR CHIP 1.5K 1/10W(2012)
R208	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R209	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R210	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R211	1-216-661-11	s	RESISTOR,CHIP 2.7K 1/10W(2012)
R212	1-216-071-00	s	RESISTOR,CHIP 8.2K 1/10W(2012)
R213	1-216-053-00	s	RESISTOR CHIP 1.5K 1/10W(2012)
R214	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R215	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R216	1-215-889-00	s	RESISTOR,METAL FILM 330 2W
R217	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R218	1-216-053-00	s	RESISTOR CHIP 1.5K 1/10W(2012)
R219	1-215-889-00	s	RESISTOR,METAL FILM 330 2W
R220	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R221	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R222	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R223	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R224	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R225	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R226	1-216-079-00	s	RESISTOR CHIP 18K 1/10W(2012)
R227	1-216-061-00	s	RESISTOR CHIP 3.3K 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R228	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R229	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R230	1-216-051-11	s	RESISTOR,CHIP 1.2K 1/10W
R232	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R233	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R234	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R235	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R236	1-216-113-00	s	RESISTOR CHIP 470K 1/10W(2012)
R237	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R238	1-216-089-91	s	RESISTOR, CHIP 47K 1/10W(2012)
R239	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R240	1-216-055-00	s	RESISTOR CHIP 1.8K 1/10W(2012)
R241	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R242	1-216-061-00	s	RESISTOR CHIP 3.3K 1/10W(2012)
R243	1-216-069-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R244	1-216-089-91	s	RESISTOR, CHIP 47K 1/10W(2012)
R245	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R246	1-216-089-91	s	RESISTOR, CHIP 47K 1/10W(2012)
R247	1-215-892-11	s	RESISTOR,METAL FILM 1K/2W
R248	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R249	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R250	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R251	1-215-892-11	s	RESISTOR,METAL FILM 1K/2W
R252	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R253	1-216-113-00	s	RESISTOR CHIP 470K 1/10W(2012)
R254	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R255	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R256	1-216-113-00	s	RESISTOR CHIP 470K 1/10W(2012)
R257	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R258	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R259	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R260	1-216-097-00	s	RESISTOR,CHIP 100K(2012)
R261	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R262	1-216-681-11	s	RESISTOR,CHIP 18K 1/10W (2012)
R263	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R264	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R265	1-208-804-11	s	RESISTOR,CHIP 8.2K 1/10W(2012)
R266	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R267	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R268	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R269	1-216-121-00	s	RESISTOR CHIP 1M 1/10W(2012)
R270	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R272	1-216-109-00	s	RESISTOR CHIP 330K 1/10W(2012)
R273	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R274	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R275	1-216-077-00	s	RESISTOR,CHIP 15K 1/10W(2012)
R276	1-216-089-91	s	RESISTOR, CHIP 47K 1/10W(2012)
R277	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R278	1-216-657-11	s	RESISTOR,CHIP 1.8K 1/10W(2012)
R279	1-216-049-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R280	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R281	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R282	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R283	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R284	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R285	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R286	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R287	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R288	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP Description
R289	1-216-109-00	s RESISTOR,CHIP 330K 1/10W(2012)
R290	1-216-109-00	s RESISTOR,CHIP 330K 1/10W(2012)
R291	1-216-025-00	s RESISTOR,CHIP 100 1/10W(2012)
R292	1-216-065-91	s RESISTOR,CHIP 4.7K 1/10W(2012)
R293	1-216-065-91	s RESISTOR,CHIP 4.7K 1/10W(2012)
R294	1-216-073-00	s RESISTOR,CHIP 10K 1/10W(2012)
R295	1-216-065-91	s RESISTOR,CHIP 4.7K 1/10W(2012)
R296	1-216-065-91	s RESISTOR,CHIP 4.7K 1/10W(2012)
R297	1-216-065-91	s RESISTOR,CHIP 4.7K 1/10W(2012)
R298	1-216-065-91	s RESISTOR,CHIP 4.7K 1/10W(2012)
R299	1-216-065-91	s RESISTOR,CHIP 4.7K 1/10W(2012)
R301	1-216-073-00	s RESISTOR,CHIP 10K 1/10W(2012)
R302	1-216-121-00	s RESISTOR,CHIP 1M 1/10W(2012)
R303	1-216-073-00	s RESISTOR,CHIP 10K 1/10W(2012)
R304	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R306	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R307	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R309	1-216-689-11	s RESISTOR,CHIP 39K 1/10W(2012)
R310	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R311	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R312	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R313	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R314	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R315	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R316	1-216-057-00	s RESISTOR,CHIP 2.2K 1/10W(2012)
R317	1-208-781-11	s RESISTOR,CHIP 910 1/10W (2125)
R318	1-216-097-00	s RESISTOR,CHIP 100K 1/10W(2012)
R319	1-216-079-00	s RESISTOR,CHIP 18K 1/10W(2012)
R320	1-216-067-00	s RESISTOR,CHIP 5.6K 1/10W(2012)
R321	1-216-121-00	s RESISTOR,CHIP 1M 1/10W(2012)
R322	1-216-081-00	s RESISTOR,CHIP 22K 1/10W(2012)
R323	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R324	1-216-084-00	s RESISTOR,CHIP 30K 1/10W(2012)
R325	1-216-077-00	s RESISTOR,CHIP 15K 1/10W(2012)
R326	1-216-065-91	s RESISTOR,CHIP 4.7K 1/10W(2012)
R327	1-249-393-11	s RES,CARBON 10 1/4W
R328	1-247-807-31	s RESISTOR,CARBON 100 1/4W
R329	1-216-065-91	s RESISTOR,CHIP 4.7K 1/10W(2012)
R330	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R331	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R332	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R333	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R335	1-216-081-00	s RESISTOR,CHIP 22K 1/10W(2012)
R336	1-216-101-00	s RESISTOR,CHIP 150K 1/10W(2012)
R337	1-216-081-00	s RESISTOR,CHIP 22K 1/10W(2012)
R338	1-216-065-91	s RESISTOR,CHIP 4.7K 1/10W(2012)
R339	1-216-042-00	s RESISTOR,CHIP 510 1/10W (2125)
R340	1-216-049-11	s RESISTOR,CHIP 1K 1/10W(2012)
R341	1-216-065-91	s RESISTOR,CHIP 4.7K 1/10W(2012)
R342	1-216-081-00	s RESISTOR,CHIP 22K 1/10W(2012)
R343	1-216-073-00	s RESISTOR,CHIP 10K 1/10W(2012)
R344	1-216-079-00	s RESISTOR,CHIP 18K 1/10W(2012)
R345	1-216-077-00	s RESISTOR,CHIP 15K 1/10W(2012)
R346	1-216-049-11	s RESISTOR,CHIP 1K 1/10W(2012)
R348	1-216-049-11	s RESISTOR,CHIP 1K 1/10W(2012)
R349	1-216-657-11	s RESISTOR,CHIP 1.8K 1/10W(2012)
R350	1-216-065-91	s RESISTOR,CHIP 4.7K 1/10W(2012)
R351	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R352	1-216-049-11	s RESISTOR,CHIP 1K 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP Description
R353	1-216-049-11	s RESISTOR,CHIP 1K 1/10W(2012)
R354	1-216-001-00	s RESISTOR,CHIP 10 1/10W(2012)
R355	1-247-791-91	s RESISTOR,CARBON 22 1/4W
R356	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R357	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R358	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R359	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R360	1-216-065-91	s RESISTOR,CHIP 4.7K 1/10W(2012)
R361	1-216-049-11	s RESISTOR,CHIP 1K 1/10W(2012)
R362	1-216-065-91	s RESISTOR,CHIP 4.7K 1/10W(2012)
R363	1-216-073-00	s RESISTOR,CHIP 10K 1/10W(2012)
R364	1-216-065-91	s RESISTOR,CHIP 4.7K 1/10W(2012)
R365	1-216-049-11	s RESISTOR,CHIP 1K 1/10W(2012)
R366	1-216-667-11	s RESISTOR,CHIP 4.7K 1/10W(2012)
R370	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R371	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R372	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R373	1-216-042-00	s RESISTOR,CHIP 510 1/10W (2125)
R374	1-216-097-00	s RESISTOR,CHIP 100K 1/10W(2012)
R401	1-216-071-00	s RESISTOR,CHIP 8.2K 1/10W(2012)
R402	1-216-071-00	s RESISTOR,CHIP 8.2K 1/10W(2012)
R403	1-216-073-00	s RESISTOR,CHIP 10K 1/10W(2012)
R404	1-216-057-00	s RESISTOR,CHIP 2.2K 1/10W(2012)
R405	1-216-081-00	s RESISTOR,CHIP 22K 1/10W(2012)
R406	1-216-071-00	s RESISTOR,CHIP 8.2K 1/10W(2012)
R407	1-216-071-00	s RESISTOR,CHIP 8.2K 1/10W(2012)
R408	1-216-071-00	s RESISTOR,CHIP 8.2K 1/10W(2012)
R409	1-216-071-00	s RESISTOR,CHIP 8.2K 1/10W(2012)
R410	1-216-089-91	s RESISTOR,CHIP 47K 1/10W(2012)
R411	1-216-089-91	s RESISTOR,CHIP 47K 1/10W(2012)
R412	1-216-089-91	s RESISTOR,CHIP 47K 1/10W(2012)
R413	1-216-089-91	s RESISTOR,CHIP 47K 1/10W(2012)
R414	1-216-041-00	s RESISTOR,CHIP 470 1/10W(2012)
R415	1-216-057-00	s RESISTOR,CHIP 2.2K 1/10W(2012)
R416	1-216-113-00	s RESISTOR,CHIP 470K 1/10W(2012)
R417	1-216-089-91	s RESISTOR,CHIP 47K 1/10W(2012)
R418	1-216-659-11	s RESISTOR,CHIP 2.2K 1/10W(2012)
R419	1-216-073-00	s RESISTOR,CHIP 10K 1/10W(2012)
R420	1-216-073-00	s RESISTOR,CHIP 10K 1/10W(2012)
R421	1-216-025-00	s RESISTOR,CHIP 100 1/10W(2012)
R422	1-244-348-31	s RES, METAL PLATE 0.47
R423	1-244-348-31	s RES, METAL PLATE 0.47
R424	1-216-659-11	s RESISTOR,CHIP 2.2K 1/10W(2012)
R425	1-216-681-11	s RESISTOR,CHIP 18K 1/10W (2012)
R426	1-216-025-00	s RESISTOR,CHIP 100 1/10W(2012)
R427	1-216-089-91	s RESISTOR,CHIP 47K 1/10W(2012)
R428	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R429	1-216-069-11	s RESISTOR,CHIP 6.8K 1/10W(2012)
R430	1-216-068-00	s RESISTOR,CHIP 6.2K 1/10W(2012)
R431	1-216-081-00	s RESISTOR,CHIP 22K 1/10W(2012)
R432	1-216-073-00	s RESISTOR,CHIP 10K 1/10W(2012)
R433	1-216-073-00	s RESISTOR,CHIP 10K 1/10W(2012)
R434	1-216-073-00	s RESISTOR,CHIP 10K 1/10W(2012)
R435	1-216-073-00	s RESISTOR,CHIP 10K 1/10W(2012)
R436	1-216-081-00	s RESISTOR,CHIP 22K 1/10W(2012)
R437	1-216-081-00	s RESISTOR,CHIP 22K 1/10W(2012)
R438	1-216-065-91	s RESISTOR,CHIP 4.7K 1/10W(2012)
R439	1-216-086-00	s RESISTOR,CHIP 36K 1/10W(2012)
R440	1-216-065-91	s RESISTOR,CHIP 4.7K 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R442	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R443	1-216-085-00	s	RESISTOR CHIP 33K 1/10W(2012)
R445	1-216-121-00	s	RESISTOR CHIP 1M 1/10W(2012)
R446	1-216-669-11	s	RESISTOR,CHIP 5.6K 1/10W(2012)
R447	1-216-669-11	s	RESISTOR,CHIP 5.6K 1/10W(2012)
R448	1-216-669-11	s	RESISTOR,CHIP 5.6K 1/10W(2012)
R449	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R450	1-216-666-11	s	RESISTOR,CHIP 4.3K 1/10W(2012)
R451	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R452	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R453	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R454	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R455	1-216-037-00	s	RESISTOR,CHIP 330 1/10W(2012)
R456	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R457	1-245-297-11	s	RES, CEMENT-COATED 4.7
R458	1-245-297-11	s	RES, CEMENT-COATED 4.7
R461	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R463	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R464	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R465	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R466	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R467	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R469	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R470	1-242-952-31	s	RES, METAL PLATE 0.01
R471	1-240-560-21	s	RES, PRECISION 39K (2012)
R501	1-249-401-11	s	RES,CARBON 47 1/4W (SMALL)
R502	1-247-807-31	s	RESISTOR,CARBON 100 1/4W
R504	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R505	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R509	1-216-308-00	s	RESISTOR,CHIP 4.7 1/10W(2012)
R510	1-216-308-00	s	RESISTOR,CHIP 4.7 1/10W(2012)
R511	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R512	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R516	1-243-669-11	s	RES, METAL PLATE 0.05
R601	1-216-071-00	s	RESISTOR,CHIP 8.2K 1/10W(2012)
R602	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R603	1-216-071-00	s	RESISTOR,CHIP 8.2K 1/10W(2012)
R604	1-216-071-00	s	RESISTOR,CHIP 8.2K 1/10W(2012)
R605	1-216-071-00	s	RESISTOR,CHIP 8.2K 1/10W(2012)
R606	1-216-085-00	s	RESISTOR CHIP 33K 1/10W(2012)
R607	1-216-085-00	s	RESISTOR CHIP 33K 1/10W(2012)
R608	1-216-055-00	s	RESISTOR CHIP 1.8K 1/10W(2012)
R609	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R610	1-216-089-91	s	RESISTOR, CHIP 47K 1/10W(2012)
R611	1-216-113-00	s	RESISTOR CHIP 470K 1/10W(2012)
R612	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R613	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R614	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R615	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R616	1-242-952-31	s	RES, METAL PLATE 0.01
R617	1-216-089-91	s	RESISTOR, CHIP 47K 1/10W(2012)
R618	1-240-564-21	s	RES, PRECISION 56K (2012)
R619	1-216-105-91	s	RESISTOR,CHIP 220K 1/10W(2125)
R620	1-216-069-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R621	1-216-669-11	s	RESISTOR,CHIP 5.6K 1/10W(2012)
R622	1-240-560-21	s	RES, PRECISION 39K (2012)
R623	1-208-794-11	s	RESISTOR,CHIP 3.3K 1/10W(2012)
R624	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R625	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R626	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R627	1-216-121-00	s	RESISTOR CHIP 1M 1/10W(2012)
R628	1-216-105-91	s	RESISTOR,CHIP 220K 1/10W(2125)
R629	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R630	1-245-298-11	s	RES, CEMENT-COATED 10
R631	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R632	1-215-898-81	s	RES, METAL OXIDE FILM 10K
R633	1-243-639-31	s	RES, METAL PLATE 0.1
R701	1-249-401-11	s	RES,CARBON 47 1/4W (SMALL)
R702	1-247-807-31	s	RESISTOR,CARBON 100 1/4W
R710	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R711	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R712	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R713	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R716	1-243-669-31	s	RES, METAL PLATE 0.05
R724	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R725	1-240-356-21	s	RES, PRECISION 470 (2012)
R901	1-208-760-11	s	RESISTOR,CHIP 120 1/10W (2012)
R902	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R903	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R904	1-208-760-11	s	RESISTOR,CHIP 120 1/10W (2012)
R905	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R906	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R907	1-216-121-00	s	RESISTOR CHIP 1M 1/10W(2012)
R908	1-216-061-00	s	RESISTOR CHIP 3.3K 1/10W(2012)
R909	1-216-079-00	s	RESISTOR CHIP 18K 1/10W(2012)
R910	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R950	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R952	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R953	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R954	1-216-639-11	s	RESISTOR,CHIP 330 1/10W (2012)
R955	1-216-075-00	s	RESISTOR CHIP 12K 1/10W(2012)
R956	1-216-121-00	s	RESISTOR,CHIP 1M 1/10W(2012)
R957	1-216-061-00	s	RESISTOR CHIP 3.3K 1/10W(2012)
R958	1-216-079-00	s	RESISTOR CHIP 18K 1/10W(2012)
R959	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
RV101	1-241-765-11	s	RESISTOR,ADJ, CERMET 22K
RV102	1-241-765-11	s	RESISTOR,ADJ, CERMET 22K
RV150	1-241-765-11	s	RESISTOR,ADJ, CERMET 22K
RV201	1-241-762-11	s	RESISTOR ADJ 2.2K (CERMET)
RV203	1-241-760-11	s	RESISTOR ADJ 470 (CERMET)
RV204	1-241-761-11	s	RESISTOR ADJ 1K (CERMET)
RV301	1-241-762-11	s	RESISTOR ADJ 2.2K (CERMET)
RV401	1-241-762-11	s	RESISTOR ADJ 2.2K (CERMET)
RV601	1-241-762-11	s	RESISTOR ADJ 2.2K (CERMET)
RV901	1-241-765-11	s	RESISTOR,ADJ, CERMET 22K
RV950	1-241-765-11	s	RESISTOR,ADJ, CERMET 22K
RY103	▲ 1-755-430-21	s	RELAY (FTR-K2AK018T)
THP101	1-809-789-71	s	THERMISTOR,POSITIVE
THP102	1-809-789-71	s	THERMISTOR,POSITIVE
THP103	1-809-789-71	s	THERMISTOR,POSITIVE
TP1	1-537-864-11	o	PIN, POST
TP2	1-537-864-11	o	PIN, POST
TP3	1-537-864-11	o	PIN, POST
TP4	1-537-864-11	o	PIN, POST
VDR101	▲ 1-801-071-11	s	VARISTOR
VDR105	▲ 1-801-071-11	s	VARISTOR

B BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1300-371-A	s MOUNTED CIRCUIT BOARD, B
BAT500	1-756-156-11	o HOLDER, BATTERY
C1	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C2	1-115-566-11	s CAPACITOR,CERAMIC 4.7MF B/6.3V
C3	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C5	1-107-823-11	s CAPACITOR,CERAMIC 0.47MF/16V
C6	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C7	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C8	1-125-889-11	s CAPACITOR, C.CERAMIC 2.2MF
C9	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C10	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C11	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C12	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C13	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C14	1-115-566-11	s CAPACITOR,CERAMIC 4.7MF B/6.3V
C15	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C16	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C17	1-162-915-11	s CAPACITOR,CERAMIC 10PF/50V CH
C18	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C19	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C20	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C21	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C22	1-115-467-11	s CAPACITOR CERAMIC 0.22MF/10V B
C23	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C24	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C25	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C26	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C27	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C28	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C29	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C30	1-115-566-11	s CAPACITOR,CERAMIC 4.7MF B/6.3V
C31	1-115-340-11	s CAPACITOR CERAMIC 0.22MF/25V B
C32	1-115-340-11	s CAPACITOR CERAMIC 0.22MF/25V B
C33	1-115-340-11	s CAPACITOR CERAMIC 0.22MF/25V B
C34	1-127-760-11	s CAPACITOR,CERAMIC 4.7MF/6.3V
C35	1-162-917-11	s CAPACITOR,CERAMIC 15PF/50V CH
C36	1-127-760-11	s CAPACITOR,CERAMIC 4.7MF/6.3V
C37	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C38	1-164-344-11	s CAPACITOR CERAMIC 6800PF (M-)
C39	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C40	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C41	1-162-969-11	s CAPACITOR,CERAMIC 6800PF/25V B
C42	1-162-928-11	s CAPACITOR,CERAMIC 120PF/50V CH
C43	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V(105)
C44	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C45	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C46	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C47	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V(105)
C48	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C49	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C50	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C51	1-127-692-11	s CAP, CHIP CERAMIC 10MF B 3216
C52	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V(105)
C53	1-131-661-11	s CAPACITOR,ELECT 100MF/10V CHIP
C54	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C55	1-163-233-91	s CAPACITOR,CHIP CERAMIC 18PF/50
C56	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)

(B BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C57	1-109-982-11	s CAPACITOR,CHIP CERAMIC 1MF/10V
C58	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C59	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C60	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C61	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C62	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C63	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V(105)
C64	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C65	1-162-917-11	s CAPACITOR,CERAMIC 15PF/50V CH
C66	1-162-917-11	s CAPACITOR,CERAMIC 15PF/50V CH
C67	1-131-661-11	s CAPACITOR,ELECT 100MF/10V CHIP
C68	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C69	1-128-361-11	s CAPACITOR ELECT 470MF/10V CHIP
C70	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C71	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V(105)
C72	1-165-585-21	s CAPACITOR, CHIP ELECT 47MF
C74	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C75	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C76	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C77	1-115-416-11	s CAPACITOR,CERAMIC 1000PF/25V
C78	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C79	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C80	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C81	1-125-891-11	s CAPACITOR CERAMIC 0.47MF/10V
C82	1-131-661-11	s CAPACITOR,ELECT 100MF/10V CHIP
C83	1-127-692-11	s CAP, CHIP CERAMIC 10MF B 3216
C84	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C201	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C202	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C203	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C204	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C205	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C206	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V(105)
C207	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V(105)
C208	1-115-670-11	s CAPACITOR ELECT 220MF/35V(CHIP)
C209	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C210	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C211	1-162-964-11	s CAPACITOR,CERAMIC 1000PF/50V B
C212	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C214	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C216	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C218	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V(105)
C220	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C221	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C222	1-162-975-11	s CAPACITOR,CERAMIC 24PF/50V CH
C223	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V(105)
C224	1-162-975-11	s CAPACITOR,CERAMIC 24PF/50V CH
C225	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C226	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C227	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C228	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C229	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C230	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C231	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C232	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C233	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C234	1-109-982-11	s CAPACITOR,CHIP CERAMIC 1MF/10V
C235	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C236	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP	Description
C237	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C238	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C239	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C240	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C241	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C242	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C243	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C244	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C245	1-109-982-11	s	CAPACITOR,CHIP CERAMIC 1MF/10V
C247	1-165-872-11	s	CAPACITOR,SOLID ELECT 47MF
C249	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C250	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C251	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C252	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C253	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C254	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C255	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C256	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C257	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C258	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C259	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C260	1-109-982-11	s	CAPACITOR,CHIP CERAMIC 1MF/10V
C261	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C262	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C263	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C264	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C265	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C266	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C270	1-131-661-11	s	CAPACITOR,ELECT 100MF/10V CHIP
C271	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C272	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C273	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C274	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C275	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C276	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C401	1-115-670-11	s	CAPACITOR ELECT 220MF/35V(CHIP
C402	1-162-959-11	s	CAPACITOR,CERAMIC 330PF/50V SL
C403	1-125-898-11	s	CAPACITOR, CERAMIC 0.22MF 50V
C404	1-125-898-11	s	CAPACITOR, CERAMIC 0.22MF 50V
C405	1-125-898-11	s	CAPACITOR, CERAMIC 0.22MF 50V
C406	1-125-898-11	s	CAPACITOR, CERAMIC 0.22MF 50V
C407	1-110-501-11	s	CAPACITOR CERAMIC 0.33MF/16V
C408	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C409	1-125-898-11	s	CAPACITOR, CERAMIC 0.22MF 50V
C410	1-125-898-11	s	CAPACITOR, CERAMIC 0.22MF 50V
C411	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C412	1-125-898-11	s	CAPACITOR, CERAMIC 0.22MF 50V
C413	1-125-898-11	s	CAPACITOR, CERAMIC 0.22MF 50V
C414	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C415	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C416	1-115-670-11	s	CAPACITOR ELECT 220MF/35V(CHIP
C417	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C418	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C419	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C420	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C421	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C422	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C423	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C424	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP	Description
C425	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C426	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C427	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C428	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C429	1-115-670-11	s	CAPACITOR ELECT 220MF/35V(CHIP
C431	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C432	1-109-982-11	s	CAPACITOR,CHIP CERAMIC 1MF/10V
C433	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C434	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C435	1-109-982-11	s	CAPACITOR,CHIP CERAMIC 1MF/10V
C436	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C437	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C438	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C439	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C440	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C441	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C442	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C443	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C444	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C445	1-115-566-11	s	CAPACITOR,CERAMIC 4.7MF B/6.3V
C446	1-115-566-11	s	CAPACITOR,CERAMIC 4.7MF B/6.3V
C447	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C448	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C449	1-164-230-11	s	CAPACITOR,CERAMIC 220PF/50V
C450	1-115-566-11	s	CAPACITOR,CERAMIC 4.7MF B/6.3V
C451	1-115-566-11	s	CAPACITOR,CERAMIC 4.7MF B/6.3V
C452	1-115-566-11	s	CAPACITOR,CERAMIC 4.7MF B/6.3V
C453	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C454	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C455	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C456	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C457	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C458	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C459	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C460	1-164-230-11	s	CAPACITOR,CERAMIC 220PF/50V
C461	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C462	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C463	1-128-361-11	s	CAPACITOR ELECT 470MF/10V CHIP
C464	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C465	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C466	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C467	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C468	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C604	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C605	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C606	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C607	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C608	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C609	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C610	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C611	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C612	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C613	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C614	1-128-360-11	s	CAPACITOR,ELECT 220MF/10V CHIP
C615	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C616	1-128-304-11	s	CAPACITOR, CHIP ELECT 330MF
C617	1-128-304-11	s	CAPACITOR, CHIP ELECT 330MF
C618	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C619	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V

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Ref. No. or Q'ty	Part No.	SP	Description
C7030	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C7076	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7077	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7078	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7081	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7082	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7083	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7084	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7085	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7086	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7087	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7203	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7204	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7205	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7206	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7207	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7208	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7209	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7210	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7211	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7212	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7213	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7214	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7215	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7218	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7219	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7220	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7221	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7222	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7223	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7224	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7225	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7226	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7227	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7228	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7229	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7230	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7231	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7234	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7235	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7236	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7237	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7238	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7239	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7240	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7241	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7244	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C7245	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C7246	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C7247	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C7248	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
CN101	1-695-209-21	s	PIN, CONNECTOR (PC BOARD) 15P
CN102	1-764-082-21	s	PIN, CONNECTOR (PC BOARD) 11P
CN103	1-764-081-21	s	PIN, CONNECTOR (PC BOARD) 9P
CN401	1-695-889-21	s	PIN, CONNECTOR (PC BOARD) 10P
CN1001	1-779-339-21	s	CONNECTOR, FFC/FPC 30P
CN1002	1-764-080-21	s	PIN, CONNECTOR (PC BOARD) 8P
CN1003	1-764-078-11	s	PIN, CONNECTOR (PC BOARD) 3P

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
CN1004	1-764-078-11	s	PIN, CONNECTOR (PC BOARD) 3P
CN1005	1-750-635-21	o	PIN, CONNECTOR (PC BOARD) 5P
CN1006	1-764-079-21	s	PIN, CONNECTOR (PC BOARD) 4P
CN7008	1-816-750-11	s	BOARD TO WIRE CONNECTOR 41P
CN7023	1-794-509-11	s	PIN, CONNECTOR (PC BOARD) (3P)
CN7025	1-764-080-21	s	PIN, CONNECTOR (PC BOARD) 8P
D1	8-719-056-23	s	DIODE MA2S111-(K8)
D401	8-719-056-23	s	DIODE MA2S111-(K8)
D402	8-719-914-43	s	DIODE DAN202K
D403	8-719-914-43	s	DIODE DAN202K
D1002	8-719-056-23	s	DIODE MA2S111-(K8)
D1003	8-719-056-23	s	DIODE MA2S111-(K8)
D1004	8-719-024-77	s	DIODE HN1D03FU-TE85L
D1005	8-719-056-23	s	DIODE MA2S111-(K8)
D1006	8-719-056-23	s	DIODE MA2S111-(K8)
D1007	8-719-421-59	s	DIODE MA3130WA-TX
FB401	1-414-234-11	s	INDUCTOR,FERRITE BEAD
FB801	1-414-921-11	s	INDUCTOR, FERRITE BEAD
FB802	1-414-921-11	s	INDUCTOR, FERRITE BEAD
FB1205	1-216-864-11	s	CONDUCTOR, CHIP (1608)
FB1206	1-216-864-11	s	CONDUCTOR, CHIP (1608)
FB1207	1-216-864-11	s	CONDUCTOR, CHIP (1608)
FB7011	1-414-864-11	s	INDUCTOR, MICRO (CHIP TYPE)
FB7016	1-414-864-11	s	INDUCTOR, MICRO (CHIP TYPE)
FB7028	1-414-864-11	s	INDUCTOR, MICRO (CHIP TYPE)
FB7029	1-414-864-11	s	INDUCTOR, MICRO (CHIP TYPE)
FB7105	1-414-864-11	s	INDUCTOR, MICRO (CHIP TYPE)
FB7111	1-469-379-11	s	FERRITE, EMI (SMD)
FB7113	1-414-864-11	s	INDUCTOR, MICRO (CHIP TYPE)
FL1	1-233-505-21	s	FILTER, LOW PASS
FL2	1-233-505-21	s	FILTER, LOW PASS
FL3	1-233-505-21	s	FILTER, LOW PASS
FL400	1-239-558-11	s	FILTER, CHIP EMI
IC1	8-759-443-08	s	IC TC7W241FU (TE12R)
IC2	8-752-107-30	s	IC CXA2163AQ-T6
IC3	8-759-082-61	s	IC TC4W53FU
IC4	8-759-638-04	s	IC Z8622912SSC-00TR
IC5	8-752-053-21	s	IC CXA1211M
IC6	8-752-390-35	s	IC CXD2057M-T6
IC7	8-759-533-85	s	IC L88M05T-FA-TL
IC201	8-749-018-41	s	IC SI-3025LSA-TL
IC202	8-749-018-41	s	IC SI-3025LSA-TL
IC204	8-759-031-84	s	IC SC7S04F
IC205	8-759-436-89	s	IC MC141627FT
IC206	6-700-960-01	s	IC UPD64083GF-3BA
IC207	8-759-987-27	s	IC LM1881M
IC208	8-759-082-61	s	IC TC4W53FU
IC209	8-759-082-61	s	IC TC4W53FU
IC401	8-759-533-85	s	IC L88M05T-FA-TL
IC402	8-759-460-72	s	IC BA033FP
IC403	8-752-095-84	s	IC CXA3516R
IC404	8-759-646-02	s	IC M52347FP-TE
IC405	8-759-596-34	s	IC SN74LV4053APWR
IC406	8-759-058-62	s	IC TC7S08FU-TE85R
IC601	8-759-837-36	s	IC CXD9606Q
IC603	8-759-676-70	s	IC MSM56V16160F-10TS-K
IC604	8-759-549-00	s	IC SN74LV123APWR
IC801	6-700-681-01	s	IC IP00C713

(B BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC802	8-759-594-19	s IC 7032V-DAD19-SP-V2.02
IC803	8-759-594-19	s IC 7032V-DAD19-SP-V2.02
IC804	8-759-594-19	s IC 7032V-DAD19-SP-V2.02
IC1003	8-759-560-17	s IC RS5C348A-E2
IC1004	8-759-648-10	s IC HD64F2633TE
IC1005	8-759-544-01	s IC S-80828ANNP-EDR-T2
IC1006	8-759-058-62	s IC TC7S08FU-TE85R
IC1007	8-759-684-72	s IC M24C64-WMN6T(A)
IC1009	8-759-443-08	s IC TC7W241FU (TE12R)
IC1010	8-759-524-50	s IC TC74VHC541FT(EL)
IC1011	8-759-490-41	s IC TC74VHCT541AFT(EL)
IC1012	8-759-599-01	s IC TC74VHCT14AFT(EL)
IC1016	8-759-277-63	s IC TC7W14FU (TE12R)
IC1017	8-759-652-56	s IC BA033F-E2
IC1019	8-759-669-50	s IC SN74CBTD3306PWR-12
IC1020	8-759-582-91	s IC S-80842ANNP-ED6-T2
IC1205	6-700-683-01	s IC MB90098APF-A-130-BND-ER
IC7003	8-749-015-18	s IC PQ07VZ012P
IC7016	8-759-713-82	s IC DS90CF383AMTDX
IC7017	8-759-713-82	s IC DS90CF383AMTDX
IC7026	8-759-666-13	s IC PST9229NL
IC7102	6-702-933-01	s IC XC2S200-5P0208C1
L1	1-412-052-21	s INDUCTOR, SMALL TYPE 1.00UH
L2	1-412-052-21	s INDUCTOR, SMALL TYPE 1.00UH
L3	1-412-052-21	s INDUCTOR, SMALL TYPE 1.00UH
L4	1-412-052-21	s INDUCTOR, SMALL TYPE 1.00UH
L5	1-412-058-11	s INDUCTOR, SMALL TYPE 10UH
L6	1-412-058-11	s INDUCTOR, SMALL TYPE 10UH
L7	1-412-058-11	s INDUCTOR, SMALL TYPE 10UH
L8	1-412-061-11	s INDUCTOR (SMALL TYPE) 33UH
L201	1-419-098-21	s INDUCTORS (POWER) 47UH
L202	1-412-063-21	s INDUCTOR, SMALL TYPE 68UH
L204	1-412-052-21	s INDUCTOR, SMALL TYPE 1.00UH
L205	1-412-052-21	s INDUCTOR, SMALL TYPE 1.00UH
L207	1-412-052-21	s INDUCTOR, SMALL TYPE 1.00UH
L208	1-412-052-21	s INDUCTOR, SMALL TYPE 1.00UH
L401	1-412-052-21	s INDUCTOR, SMALL TYPE 1.00UH
L601	1-412-058-11	s INDUCTOR, SMALL TYPE 10UH
L602	1-412-030-11	s INDUCTOR, CHIP 22UH (3225)
L603	1-412-058-11	s INDUCTOR, SMALL TYPE 10UH
L604	1-412-030-11	s INDUCTOR, CHIP 22UH (3225)
L801	1-500-451-11	s MICRO INDUCTOR (CHIP) 41P750S
Q1	8-729-026-49	s TRANSISTOR 2SA1037AK-T146-R
Q2	8-729-026-49	s TRANSISTOR 2SA1037AK-T146-R
Q3	8-729-927-99	s TRANSISTOR 2SC4617R
Q4	8-729-026-49	s TRANSISTOR 2SA1037AK-T146-R
Q5	8-729-216-22	s TRANSISTOR 2SA1162-G
Q6	8-729-927-99	s TRANSISTOR 2SC4617R
Q7	8-729-928-81	s TRANSISTOR DTC144EE
Q8	8-729-927-99	s TRANSISTOR 2SC4617R
Q9	8-729-216-22	s TRANSISTOR 2SA1162-G
Q10	8-729-927-99	s TRANSISTOR 2SC4617R
Q11	8-729-927-99	s TRANSISTOR 2SC4617R
Q12	8-729-216-22	s TRANSISTOR 2SA1162-G
Q13	8-729-216-22	s TRANSISTOR 2SA1162-G
Q14	8-729-216-22	s TRANSISTOR 2SA1162-G
Q15	8-729-928-19	s TRANSISTOR 2SA1774R
Q16	8-729-928-19	s TRANSISTOR 2SA1774R
Q17	8-729-927-99	s TRANSISTOR 2SC4617R

(B BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q18	8-729-928-81	s TRANSISTOR DTC144EE
Q19	8-729-928-19	s TRANSISTOR 2SA1774R
Q20	8-729-927-99	s TRANSISTOR 2SC4617R
Q21	8-729-927-99	s TRANSISTOR 2SC4617R
Q22	8-729-927-99	s TRANSISTOR 2SC4617R
Q23	8-729-927-99	s TRANSISTOR 2SC4617R
Q24	8-729-927-99	s TRANSISTOR 2SC4617R
Q25	8-729-927-99	s TRANSISTOR 2SC4617R
Q26	8-729-927-99	s TRANSISTOR 2SC4617R
Q27	8-729-928-19	s TRANSISTOR 2SA1774R
Q28	8-729-026-49	s TRANSISTOR 2SA1037AK-T146-R
Q29	8-729-026-49	s TRANSISTOR 2SA1037AK-T146-R
Q30	8-729-026-49	s TRANSISTOR 2SA1037AK-T146-R
Q31	8-729-112-65	s TRANSISTOR 2SA1462
Q32	8-729-112-65	s TRANSISTOR 2SA1462
Q33	8-729-112-65	s TRANSISTOR 2SA1462
Q35	8-729-928-81	s TRANSISTOR DTC144EE
Q201	8-729-928-19	s TRANSISTOR 2SA1774R
Q203	8-729-928-19	s TRANSISTOR 2SA1774R
Q204	8-729-927-99	s TRANSISTOR 2SC4617R
Q205	8-729-928-19	s TRANSISTOR 2SA1774R
Q206	8-729-927-99	s TRANSISTOR 2SC4617R
Q207	8-729-927-99	s TRANSISTOR 2SC4617R
Q208	8-729-927-99	s TRANSISTOR 2SC4617R
Q209	8-729-928-19	s TRANSISTOR 2SA1774R
Q210	8-729-927-99	s TRANSISTOR 2SC4617R
Q211	8-729-928-19	s TRANSISTOR 2SA1774R
Q212	8-729-927-99	s TRANSISTOR 2SC4617R
Q213	8-729-928-19	s TRANSISTOR 2SA1774R
Q214	8-729-928-81	s TRANSISTOR DTC144EE
Q215	8-729-927-99	s TRANSISTOR 2SC4617R
Q216	8-729-927-99	s TRANSISTOR 2SC4617R
Q217	8-729-928-19	s TRANSISTOR 2SA1774R
Q218	8-729-928-19	s TRANSISTOR 2SA1774R
Q401	8-729-928-19	s TRANSISTOR 2SA1774R
Q402	8-729-927-99	s TRANSISTOR 2SC4617R
Q403	8-729-927-99	s TRANSISTOR 2SC4617R
Q404	8-729-928-81	s TRANSISTOR DTC144EE
Q405	8-729-928-81	s TRANSISTOR DTC144EE
Q406	8-729-928-81	s TRANSISTOR DTC144EE
Q407	8-729-927-99	s TRANSISTOR 2SC4617R
Q408	8-729-927-99	s TRANSISTOR 2SC4617R
Q409	8-729-927-99	s TRANSISTOR 2SC4617R
Q410	8-729-927-99	s TRANSISTOR 2SC4617R
Q411	8-729-928-19	s TRANSISTOR 2SA1774R
Q412	8-729-928-19	s TRANSISTOR 2SA1774R
Q413	8-729-928-19	s TRANSISTOR 2SA1774R
Q414	8-729-928-19	s TRANSISTOR 2SA1774R
Q415	8-729-928-19	s TRANSISTOR 2SA1774R
Q416	8-729-928-81	s TRANSISTOR DTC144EE
Q417	8-729-928-81	s TRANSISTOR DTC144EE
Q418	8-729-928-81	s TRANSISTOR DTC144EE
Q1001	8-729-927-99	s TRANSISTOR 2SC4617R
Q1002	8-729-928-19	s TRANSISTOR 2SA1774R
R1	1-216-809-11	s RESISTOR, CHIP 100 1/10W 1608
R2	1-216-809-11	s RESISTOR, CHIP 100 1/10W 1608
R3	1-216-805-11	s RESISTOR, CHIP 47 1/10W 1608
R4	1-216-809-11	s RESISTOR, CHIP 100 1/10W 1608
R5	1-216-864-11	s CONDUCTOR, CHIP (1608)

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R6	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/10W 1608
R7	1-218-726-11	s	RESISTOR CHIP 27K 1/16W (1608)
R8	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R9	1-216-855-11	s	RESISTOR, CHIP 680K 1/10W 1608
R10	1-216-828-11	s	RESISTOR, CHIP 3.9K 1/10W 1608
R11	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R12	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R13	1-216-855-11	s	RESISTOR, CHIP 680K 1/10W 1608
R14	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R15	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R16	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R17	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R18	1-218-713-11	s	RESISTOR,METAL 7.5K 1/16W
R19	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R20	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R21	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R22	1-216-819-11	s	RESISTOR,CHIP 680 1/10W 1608
R23	1-216-818-11	s	RESISTOR, CHIP 560 1/10W 1608
R24	1-216-819-11	s	RESISTOR,CHIP 680 1/10W 1608
R25	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)
R26	1-216-819-11	s	RESISTOR,CHIP 680 1/10W 1608
R27	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)
R28	1-216-819-11	s	RESISTOR,CHIP 680 1/10W 1608
R29	1-216-830-11	s	RESISTOR,CHIP 5.6K 1/10W 1608
R30	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)
R31	1-216-839-11	s	RESISTOR,CHIP 33K 1/10W 1608
R32	1-216-841-11	s	RESISTOR, CHIP 47K 1/10W 1608
R33	1-218-867-11	s	RESISTOR,CHIP 6.8K 1/10W(1608)
R34	1-216-819-11	s	RESISTOR,CHIP 680 1/10W 1608
R35	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R36	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R37	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R38	1-216-817-11	s	RESISTOR,CHIP 470 1/10W 1608
R39	1-216-830-11	s	RESISTOR,CHIP 5.6K 1/10W 1608
R40	1-216-813-11	s	RESISTOR, CHIP 220 1/10W 1608
R41	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R42	1-218-712-11	s	RESISTOR,METAL 6.8K 1/16W
R43	1-216-819-11	s	RESISTOR,CHIP 680 1/10W 1608
R44	1-216-827-11	s	RESISTOR, CHIP 3.3K 1/10W 1608
R45	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R46	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R47	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R48	1-216-818-11	s	RESISTOR, CHIP 560 1/10W 1608
R49	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R50	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R51	1-216-815-11	s	RESISTOR,CHIP 330 1/10W 1608
R52	1-216-819-11	s	RESISTOR,CHIP 680 1/10W 1608
R53	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R54	1-216-830-11	s	RESISTOR,CHIP 5.6K 1/10W 1608
R55	1-216-818-11	s	RESISTOR, CHIP 560 1/10W 1608
R56	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R57	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/10W(1608)
R58	1-216-845-11	s	RESISTOR,CHIP 100K 1/10W(1608)
R59	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R60	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R61	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R62	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/10W 1608
R64	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/10W 1608
R65	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R66	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R67	1-218-710-11	s	RESISTOR,CHIP 5.6K 1/16W(1608)
R68	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R69	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R70	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R71	1-218-714-11	s	RESISTOR,CHIP 8.2K 1/16W(1608)
R72	1-218-702-11	s	RESISTOR CHIP 2.7K 1/16W(1608)
R73	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R74	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R75	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R76	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R77	1-216-820-11	s	RESISTOR, CHIP 820 1/10W 1608
R78	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R79	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R80	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R81	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R82	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R83	1-218-693-11	s	RESISTOR,CHIP 1.1K 1/16W(1608)
R84	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R85	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R86	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R89	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R90	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R91	1-218-694-11	s	RESISTOR,CHIP 1.2K1/16W(1608)
R92	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R93	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R94	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R95	1-218-702-11	s	RESISTOR CHIP 2.7K 1/16W(1608)
R96	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R97	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R98	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R99	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R100	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R101	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R102	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R103	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R104	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R105	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R106	1-216-813-11	s	RESISTOR, CHIP 220 1/10W 1608
R107	1-216-813-11	s	RESISTOR, CHIP 220 1/10W 1608
R108	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R109	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R110	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R112	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R113	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R118	1-216-857-11	s	RESISTOR,CHIP 1M 1/10W(1608)
R119	1-216-857-11	s	RESISTOR,CHIP 1M 1/10W(1608)
R201	1-218-867-11	s	RESISTOR,CHIP 6.8K 1/10W(1608)
R202	1-216-840-11	s	RESISTOR,CHIP 39K 1/10W 1608
R204	1-216-813-11	s	RESISTOR, CHIP 220 1/10W 1608
R205	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/10W 1608
R207	1-218-678-11	s	RESISTOR CHIP 270 1/16W (1608)
R213	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R214	1-218-661-11	s	RESISTOR,CHIP 51 1/16W (1608)
R215	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R216	1-216-824-11	s	RESISTOR, CHIP 1.8K 1/10W 1608
R217	1-216-824-11	s	RESISTOR, CHIP 1.8K 1/10W 1608
R218	1-216-824-11	s	RESISTOR, CHIP 1.8K 1/10W 1608
R219	1-216-824-11	s	RESISTOR, CHIP 1.8K 1/10W 1608

(B BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R220	1-216-864-11	s CONDUCTOR, CHIP (1608)
R223	1-218-731-11	s RESISTOR,METAL 43K 1/16W
R232	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R233	1-216-864-11	s CONDUCTOR, CHIP (1608)
R236	1-216-864-11	s CONDUCTOR, CHIP (1608)
R239	1-216-864-11	s CONDUCTOR, CHIP (1608)
R240	1-216-835-11	s RESISTOR,CHIP 15K 1/10W
R245	1-216-813-11	s RESISTOR, CHIP 220 1/10W 1608
R246	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R248	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R252	1-216-822-11	s RESISTOR, CHIP 1.2K 1/10W 1608
R255	1-216-824-11	s RESISTOR, CHIP 1.8K 1/10W 1608
R256	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R257	1-216-839-11	s RESISTOR,CHIP 33K 1/10W 1608
R258	1-216-836-11	s RESISTOR, CHIP 18K 1/10W 1608
R260	1-216-813-11	s RESISTOR, CHIP 220 1/10W 1608
R261	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R262	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R263	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R265	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R266	1-218-690-11	s RESISTOR,CHIP 820 1/16W (1608)
R269	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R271	1-216-816-11	s RESISTOR, CHIP 390 1/10W 1608
R272	1-218-688-11	s RESISTOR,CHIP 680 1/16W(1608)
R273	1-218-712-11	s RESISTOR,METAL 6.8K 1/16W
R274	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R275	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R276	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R277	1-216-855-11	s RESISTOR, CHIP 680K 1/10W 1608
R279	1-216-823-11	s RESISTOR, CHIP 1.5K 1/10W
R280	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R281	1-216-823-11	s RESISTOR, CHIP 1.5K 1/10W
R282	1-218-867-11	s RESISTOR,CHIP 6.8K 1/10W(1608)
R283	1-216-825-11	s RESISTOR,CHIP 2.2K 1/10W 1608
R284	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R285	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R286	1-216-815-11	s RESISTOR,CHIP 330 1/10W 1608
R287	1-216-839-11	s RESISTOR,CHIP 33K 1/10W 1608
R288	1-216-836-11	s RESISTOR, CHIP 18K 1/10W 1608
R289	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R290	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R291	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R292	1-218-686-11	s RESISTOR,CHIP 560 1/16W (1608)
R293	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R294	1-218-688-11	s RESISTOR,CHIP 680 1/16W(1608)
R295	1-218-720-11	s RESISTOR,CHIP 15K 1/16W(1608)
R296	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R298	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R299	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R301	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R302	1-216-817-11	s RESISTOR,CHIP 470 1/10W 1608
R303	1-216-817-11	s RESISTOR,CHIP 470 1/10W 1608
R304	1-216-817-11	s RESISTOR,CHIP 470 1/10W 1608
R305	1-216-823-11	s RESISTOR, CHIP 1.5K 1/10W
R306	1-216-823-11	s RESISTOR, CHIP 1.5K 1/10W
R307	1-216-823-11	s RESISTOR, CHIP 1.5K 1/10W
R308	1-216-823-11	s RESISTOR, CHIP 1.5K 1/10W
R401	1-216-827-11	s RESISTOR, CHIP 3.3K 1/10W 1608
R402	1-216-864-11	s CONDUCTOR, CHIP (1608)

(B BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R403	1-216-864-11	s CONDUCTOR, CHIP (1608)
R405	1-218-703-11	s RESISTOR,CHIP 3.0K 1/16(1608)
R406	1-218-690-11	s RESISTOR,CHIP 820 1/16W (1608)
R407	1-216-864-11	s CONDUCTOR, CHIP (1608)
R409	1-218-690-11	s RESISTOR,CHIP 820 1/16W (1608)
R410	1-218-690-11	s RESISTOR,CHIP 820 1/16W (1608)
R411	1-216-805-11	s RESISTOR,CHIP 47 1/10W 1608
R412	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R413	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R414	1-216-817-11	s RESISTOR,CHIP 470 1/10W 1608
R415	1-216-817-11	s RESISTOR,CHIP 470 1/10W 1608
R416	1-216-817-11	s RESISTOR,CHIP 470 1/10W 1608
R417	1-216-823-11	s RESISTOR, CHIP 1.5K 1/10W
R418	1-216-805-11	s RESISTOR,CHIP 47 1/10W 1608
R419	1-218-722-11	s RESISTOR, CHIP 18K 1/16W 1608
R421	1-218-722-11	s RESISTOR, CHIP 18K 1/16W 1608
R423	1-218-744-11	s RESISTOR,CHIP 150K 1/16W
R424	1-218-707-11	s RESISTOR,CHIP 4.3K 1/16W(1608)
R425	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R426	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R427	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R428	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R429	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R430	1-218-744-11	s RESISTOR,CHIP 150K 1/16W
R431	1-218-744-11	s RESISTOR,CHIP 150K 1/16W
R432	1-218-660-91	s RESISTOR,CHIP 47 1/16W (1608)
R433	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R434	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R435	1-216-805-11	s RESISTOR,CHIP 47 1/10W 1608
R440	1-218-867-11	s RESISTOR,CHIP 6.8K 1/10W(1608)
R441	1-216-825-11	s RESISTOR,CHIP 2.2K 1/10W 1608
R442	1-216-825-11	s RESISTOR,CHIP 2.2K 1/10W 1608
R443	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R444	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R445	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R446	1-216-847-11	s RESISTOR, CHIP 150K 1/10W 1608
R447	1-216-827-11	s RESISTOR, CHIP 3.3K 1/10W 1608
R448	1-216-827-11	s RESISTOR, CHIP 3.3K 1/10W 1608
R449	1-216-827-11	s RESISTOR, CHIP 3.3K 1/10W 1608
R450	1-216-826-11	s RESISTOR,CHIP 2.7K 1/10W(1608)
R451	1-216-829-11	s RESISTOR,CHIP 4.7K 1/10W(1608)
R452	1-216-829-11	s RESISTOR,CHIP 4.7K 1/10W(1608)
R453	1-216-829-11	s RESISTOR,CHIP 4.7K 1/10W(1608)
R454	1-216-797-11	s RESISTOR,CHIP 10 1/10W 1608
R455	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R456	1-216-843-11	s RESISTOR,CHIP 68K 1/10W (1608)
R457	1-216-843-11	s RESISTOR,CHIP 68K 1/10W (1608)
R458	1-216-843-11	s RESISTOR,CHIP 68K 1/10W (1608)
R459	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R460	1-216-830-11	s RESISTOR,CHIP 5.6K 1/10W 1608
R604	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R607	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R608	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R609	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R610	1-216-801-11	s RESISTOR,CHIP 22 1/10W (1608)
R611	1-216-801-11	s RESISTOR,CHIP 22 1/10W (1608)
R612	1-216-801-11	s RESISTOR,CHIP 22 1/10W (1608)
R613	1-216-801-11	s RESISTOR,CHIP 22 1/10W (1608)
R614	1-216-801-11	s RESISTOR,CHIP 22 1/10W (1608)

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R615	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R616	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R620	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R621	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R622	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R623	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R624	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R625	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R626	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R627	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R629	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R630	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R631	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R632	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R633	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R634	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R635	1-216-801-11	s	RESISTOR,CHIP 22 1/10W (1608)
R636	1-216-801-11	s	RESISTOR,CHIP 22 1/10W (1608)
R637	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R638	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R801	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R802	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R803	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R804	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R805	1-216-845-11	s	RESISTOR,CHIP 100K 1/10W(1608)
R1001	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R1002	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1003	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R1004	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R1005	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R1006	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1007	1-216-841-11	s	RESISTOR, CHIP 47K 1/10W 1608
R1008	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R1009	1-216-841-11	s	RESISTOR, CHIP 47K 1/10W 1608
R1010	1-216-841-11	s	RESISTOR, CHIP 47K 1/10W 1608
R1011	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R1013	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R1015	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R1016	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R1017	1-216-838-11	s	RESISTOR CHIP 27K 1/10W(1608)
R1018	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R1019	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R1020	1-218-675-11	s	RESISTOR,CHIP 200 1/16W (1608)
R1021	1-218-703-11	s	RESISTOR,CHIP 3.0K 1/16(1608)
R1022	1-216-841-11	s	RESISTOR, CHIP 47K 1/10W 1608
R1023	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R1024	1-216-797-11	s	RESISTOR,CHIP 10 1/10W 1608
R1025	1-216-797-11	s	RESISTOR,CHIP 10 1/10W 1608
R1026	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/10W 1608
R1027	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/10W 1608
R1028	1-216-797-11	s	RESISTOR,CHIP 10 1/10W 1608
R1029	1-216-797-11	s	RESISTOR,CHIP 10 1/10W 1608
R1030	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R1031	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R1032	1-216-845-11	s	RESISTOR,CHIP 100K 1/10W(1608)
R1033	1-216-845-11	s	RESISTOR,CHIP 100K 1/10W(1608)
R1034	1-216-841-11	s	RESISTOR, CHIP 47K 1/10W 1608
R1035	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R1041	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R1044	1-216-841-11	s	RESISTOR, CHIP 47K 1/10W 1608
R1045	1-216-841-11	s	RESISTOR, CHIP 47K 1/10W 1608
R1046	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R1047	1-216-841-11	s	RESISTOR, CHIP 47K 1/10W 1608
R1048	1-216-837-11	s	RESISTOR,CHIP 22K 1/10W 1608
R1050	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1052	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1053	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1056	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1061	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/10W 1608
R1062	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/10W 1608
R1068	1-216-838-11	s	RESISTOR CHIP 27K 1/10W(1608)
R1069	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R1071	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1210	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R1218	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1223	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1224	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1225	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1226	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1227	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1228	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R7007	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R7008	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R7063	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R7064	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R7065	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R7066	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R7067	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R7068	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R7069	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R7070	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R7071	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R7072	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R7073	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R7074	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R7075	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R7078	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R7079	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R7081	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R7082	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R7083	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R7084	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R7186	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R7190	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R7191	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R7222	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R7223	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R7224	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R7225	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R7237	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R7239	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R7257	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)
R7258	1-216-815-11	s	RESISTOR,CHIP 330 1/10W 1608
R7259	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)
R7273	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R7276	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R7278	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R7279	1-216-864-11	s	CONDUCTOR, CHIP (1608)

(B BOARD)

Ref. No. or Q'ty	Part No.	SP Description	
R7285	1-216-864-11	s CONDUCTOR, CHIP (1608)	
R7287	1-216-864-11	s CONDUCTOR, CHIP (1608)	
R7288	1-216-864-11	s CONDUCTOR, CHIP (1608)	
R7290	1-216-864-11	s CONDUCTOR, CHIP (1608)	
R7291	1-216-864-11	s CONDUCTOR, CHIP (1608)	
R7294	1-216-864-11	s CONDUCTOR, CHIP (1608)	
R7295	1-216-864-11	s CONDUCTOR, CHIP (1608)	
R7296	1-216-864-11	s CONDUCTOR, CHIP (1608)	
RB201	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB202	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB203	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB204	1-234-375-21	s RES, NETWORK 1KX4	(1005)
RB205	1-234-375-21	s RES, NETWORK 1KX4	(1005)
RB206	1-234-375-21	s RES, NETWORK 1KX4	(1005)
RB401	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB402	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB403	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB404	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB405	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB406	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB407	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB408	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB409	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB410	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB411	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB412	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB601	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB602	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB603	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB604	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB605	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB606	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB607	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB608	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB609	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB610	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB611	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB612	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB801	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB802	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB803	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB804	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB805	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB806	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB807	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB1001	1-234-369-21	s RES, NETWORK 10X4	(1005)
RB1002	1-234-369-21	s RES, NETWORK 10X4	(1005)
RB1003	1-234-369-21	s RES, NETWORK 10X4	(1005)
RB1004	1-234-369-21	s RES, NETWORK 10X4	(1005)
RB1005	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB1006	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB1007	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB1008	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB1009	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB1010	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB1011	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB1012	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB1013	1-234-371-11	s RES, NETWORK 47X4	(1005)

(B BOARD)

Ref. No. or Q'ty	Part No.	SP Description	
RB1014	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB1211	1-234-371-11	s RES, NETWORK 47X4	(1005)
RB1212	1-234-371-11	s RES, NETWORK 47X4	(1005)
TH401	1-809-350-21	s THERMISTOR	
TP1	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP2	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP3	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP4	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP5	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP6	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP7	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP8	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP9	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP201	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP202	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP401	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP402	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP403	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP608	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP609	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP611	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP612	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP613	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP614	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP615	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP801	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP802	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP803	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP804	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
TP805	1-535-757-11	s CHIP, CHECKER (CONNECTOR)	
X1	1-781-914-21	s VIBRATOR, CRYSTAL(16.2MHz)	
X2	1-760-502-11	s VIBRATOR, CRYSTAL(14.318MHz)	
X601	1-795-283-21	s OSCILLATOR, CRYSTAL(70MHz)	
X801	1-781-579-21	s OSCILLATOR, CRYSTAL(74.175MHz)	
X802	1-767-365-21	s OSCILLATOR, CRYSTAL(100MHz)	
X1001	1-579-886-11	s VIBRATOR, CRYSTAL(32.768kHz)	
X1002	1-781-659-11	s VIBRATOR, CRYSTAL(12.288MHz)	

H1 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1400-425-A	s	MOUNTED CIRCUIT BOARD, H1
C8551	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C8552	1-125-838-11	s	CAPACITOR, CERAMIC 2.2MF/6.3V
CN8551	1-506-487-11	s	PIN,CONNECTOR 8P
D8552	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D8553	8-719-053-43	s	LED SLR-325VCT31
D8554	8-719-060-27	s	LED SLR-325MCT31
D8555	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D8556	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D8557	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D8558	8-719-069-55	s	DIODE UDZS-TE17-5.6B
IC8551	6-600-098-01	s	IC GP1UM26SXX
R8551	1-216-047-91	s	RESISTOR, CHIP 820 1/10W(2125)
R8553	1-216-043-91	s	RESISTOR, CHIP 560 1/10W(2125)
R8555	1-216-017-91	s	RESISTOR, CHIP 47 1/10W(2012)
S8551	1-692-829-11	s	SWITCH, TACTILE(POWER)

H2 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1400-426-A	s	MOUNTED CIRCUIT BOARD, H2
C8651	1-115-566-11	s	CAPACITOR,CERAMIC 4.7MF B/6.3V
C8652	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
CN8651	1-764-088-11	o	PIN, CONNECTOR (PC BOARD) 3P
R8651	1-216-839-11	s	RESISTOR,CHIP 33K 1/16W 1608
R8652	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R8653	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R8654	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R8655	1-216-826-11	s	RESISTOR,CHIP 2.7K 1/16W(1608)
R8656	1-216-824-11	s	RESISTOR, CHIP 1.8K 1/16W 1608
S8651	1-692-829-11	s	SWITCH, TACTILE(MENU)
S8652	1-692-829-11	s	SWITCH, TACTILE(DOWN)
S8653	1-692-829-11	s	SWITCH, TACTILE(UP)
S8654	1-692-829-11	s	SWITCH, TACTILE(ENTER)
S8655	1-692-829-11	s	SWITCH, TACTILE(VOL-)
S8656	1-692-829-11	s	SWITCH, TACTILE(VOL+)

Q BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1401-229-A	s	MOUNTED CIRCUIT BOARD, Q
C3003	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3004	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3005	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3006	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3007	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3008	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3009	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3010	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3011	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3012	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3013	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3014	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3015	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C3016	1-115-459-11	s	CAPACITOR,ELECT 47MF/6.3V(BP)
C3017	1-115-459-11	s	CAPACITOR,ELECT 47MF/6.3V(BP)
C3018	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C3019	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3020	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3021	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3022	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3023	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3024	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3033	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3034	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3035	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C3036	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3037	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3038	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3039	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3040	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3041	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3042	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3043	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3044	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3045	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3046	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3047	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3048	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3049	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C3050	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C3051	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3052	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C3053	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C3054	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C3055	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C3056	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3057	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3058	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3059	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3060	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3061	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3062	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3063	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3064	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C3065	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C3066	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C3067	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C3068	1-162-964-11	s CAPACITOR,CERAMIC 1000PF/50V B
C3069	1-162-964-11	s CAPACITOR,CERAMIC 1000PF/50V B
C3070	1-126-205-11	s CAPACITOR,ELECT 47M/6.3
C3072	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3074	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3076	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3077	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3078	1-126-204-11	s CAPACITOR, ELECT 47MF/16V(CHIP
C3079	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3080	1-126-205-11	s CAPACITOR,ELECT 47M/6.3
C3081	1-117-681-11	s CAPACITOR, ELECT 100MF/16V
C3082	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3083	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3084	1-117-681-11	s CAPACITOR, ELECT 100MF/16V
C3085	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3086	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3087	1-117-681-11	s CAPACITOR, ELECT 100MF/16V
C3088	1-165-176-11	s CAPACITOR,CERAMIC 47000PF/16V
C3089	1-165-176-11	s CAPACITOR,CERAMIC 47000PF/16V
C3090	1-117-681-11	s CAPACITOR, ELECT 100MF/16V
C3091	1-124-779-00	s CAPACITOR,ELECT 10MF/16V
C3092	1-124-779-00	s CAPACITOR,ELECT 10MF/16V
C3093	1-124-779-00	s CAPACITOR,ELECT 10MF/16V
C3094	1-124-779-00	s CAPACITOR,ELECT 10MF/16V
C3096	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C3097	1-126-395-11	s CAPACITOR,ELECT 22MF/16V(CHIP)
C3100	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C3101	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3102	1-104-661-91	s CAPACITOR, ELECT 330MF/16V
C3103	1-104-661-91	s CAPACITOR, ELECT 330MF/16V
C3104	1-104-661-91	s CAPACITOR, ELECT 330MF/16V
C3105	1-104-661-91	s CAPACITOR, ELECT 330MF/16V
C3106	1-104-661-91	s CAPACITOR, ELECT 330MF/16V
C3107	1-104-661-91	s CAPACITOR, ELECT 330MF/16V
C3108	1-124-779-00	s CAPACITOR,ELECT 10MF/16V
C3109	1-124-779-00	s CAPACITOR,ELECT 10MF/16V
C3110	1-126-400-11	s CAPACITOR ELECT 22MF/35V(CHIP)
C3111	1-124-779-00	s CAPACITOR,ELECT 10MF/16V
C3112	1-126-206-11	s CAPACITOR, ELECT 100MF/6.3V
C3113	1-117-681-11	s CAPACITOR, ELECT 100MF/16V
C3114	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C3115	1-126-206-11	s CAPACITOR, ELECT 100MF/6.3V
C3116	1-126-205-11	s CAPACITOR,ELECT 47M/6.3
C3117	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C3118	1-126-206-11	s CAPACITOR, ELECT 100MF/6.3V
C3119	1-162-587-11	s CAPACITOR,CHIP CERAMIC 0.039MF
C3120	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C3121	1-127-573-11	s CAPACITOR,CERAMIC 1MFB(2012)
C3122	1-127-573-11	s CAPACITOR,CERAMIC 1MFB(2012)
C3123	1-162-587-11	s CAPACITOR,CHIP CERAMIC 0.039MF
C3124	1-162-587-11	s CAPACITOR,CHIP CERAMIC 0.039MF
C3125	1-126-602-11	s CAPACITOR,ELECT 3.3MF/50V(CHIP
C3126	1-124-779-00	s CAPACITOR,ELECT 10MF/16V
C3127	1-163-135-00	s CAPACITOR,CHIP CERAMIC 560PF
C3128	1-127-573-11	s CAPACITOR,CERAMIC 1MFB(2012)
C3129	1-127-573-11	s CAPACITOR,CERAMIC 1MFB(2012)
C3130	1-124-779-00	s CAPACITOR,ELECT 10MF/16V
C3131	1-124-779-00	s CAPACITOR,ELECT 10MF/16V
C3132	1-124-779-00	s CAPACITOR,ELECT 10MF/16V

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C3133	1-124-779-00	s CAPACITOR,ELECT 10MF/16V
C3134	1-117-681-11	s CAPACITOR, ELECT 100MF/16V
C3135	1-117-681-11	s CAPACITOR, ELECT 100MF/16V
C3136	1-124-779-00	s CAPACITOR,ELECT 10MF/16V
C3137	1-124-779-00	s CAPACITOR,ELECT 10MF/16V
C3138	1-162-968-11	s CAPACITOR,CERAMIC 4700PF/50V B
C3139	1-162-968-11	s CAPACITOR,CERAMIC 4700PF/50V B
C3140	1-115-416-11	s CAPACITOR,CERAMIC 1000PF/25V
C3141	1-115-416-11	s CAPACITOR,CERAMIC 1000PF/25V
C3142	1-164-505-11	s CAPACITOR,CHIP CERAMIC 2.2MF
C3143	1-164-505-11	s CAPACITOR,CHIP CERAMIC 2.2MF
C3144	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C3145	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C3147	1-107-884-11	s CAPACITOR,ELECT 1000MF/16V
C3148	1-107-884-11	s CAPACITOR,ELECT 1000MF/16V
C3150	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3151	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3152	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3153	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3154	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C3155	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C3158	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3159	1-107-884-11	s CAPACITOR,ELECT 1000MF/16V
C3160	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3161	1-107-884-11	s CAPACITOR,ELECT 1000MF/16V
C3162	1-126-395-11	s CAPACITOR,ELECT 22MF/16V(CHIP)
C3164	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3165	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C3166	1-163-135-00	s CAPACITOR,CHIP CERAMIC 560PF
C3167	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3168	1-163-135-00	s CAPACITOR,CHIP CERAMIC 560PF
C3169	1-137-980-91	s CAPACITOR,CHIP CERAMIC 0.47MF
C3170	1-137-980-91	s CAPACITOR,CHIP CERAMIC 0.47MF
C3171	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C3172	1-137-980-91	s CAPACITOR,CHIP CERAMIC 0.47MF
C3173	1-137-980-91	s CAPACITOR,CHIP CERAMIC 0.47MF
C3174	1-126-395-11	s CAPACITOR,ELECT 22MF/16V(CHIP)
C3175	1-137-980-91	s CAPACITOR,CHIP CERAMIC 0.47MF
C3176	1-137-980-91	s CAPACITOR,CHIP CERAMIC 0.47MF
C3177	1-137-980-91	s CAPACITOR,CHIP CERAMIC 0.47MF
C3178	1-137-980-91	s CAPACITOR,CHIP CERAMIC 0.47MF
C3179	1-137-980-91	s CAPACITOR,CHIP CERAMIC 0.47MF
C3180	1-137-980-91	s CAPACITOR,CHIP CERAMIC 0.47MF
C3181	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C3182	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C3183	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3184	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C3185	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3186	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3187	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3188	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3189	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3190	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3191	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3192	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3197	1-126-205-11	s CAPACITOR,ELECT 47M/6.3
C3198	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3199	1-126-205-11	s CAPACITOR,ELECT 47M/6.3
C3200	1-126-205-11	s CAPACITOR,ELECT 47M/6.3

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C3201	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3202	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3203	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3204	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3205	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3206	1-117-681-11	s	CAPACITOR, ELECT 100MF/16V
C3207	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3208	1-124-778-00	s	CAPACITOR,ELECT 22MF/6.3V
C3209	1-126-204-11	s	CAPACITOR, ELECT 47MF/16V(CHIP
C3210	1-126-204-11	s	CAPACITOR, ELECT 47MF/16V(CHIP
C3211	1-126-204-11	s	CAPACITOR, ELECT 47MF/16V(CHIP
C3212	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3213	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3214	1-127-573-11	s	CAPACITOR,CERAMIC 1MFB(2012)
C3215	1-127-573-11	s	CAPACITOR,CERAMIC 1MFB(2012)
C3216	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3217	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
CLP301	4-042-408-01	o	PIN, COATING LEAD
CLP302	4-042-408-01	o	PIN, COATING LEAD
CLP303	4-042-408-01	o	PIN, COATING LEAD
CLP304	4-042-408-01	o	PIN, COATING LEAD
CN3001	1-764-095-11	o	PIN, CONNECTOR (PC BOARD) 10P
CN3002	1-784-625-11	o	CONNECTOR, FFC (ZIF) 30P
CN3003	1-764-092-11	o	PIN, CONNECTOR (PC BOARD) 7P
CN3004	1-764-080-21	s	PIN, CONNECTOR (PC BOARD) 8P
CN3005	1-564-525-11	o	PLUG,CONNECTOR (10P)(L-TYPE)
CN3007	1-695-210-21	o	PIN, CONNECTOR (PC BOARD) 15P
CN3008	1-506-483-21	s	PIN, CONNECTOR 4P
CN3009	1-815-410-11	o	SOCKET, CONNECTOR
CN3011	1-764-090-11	o	PIN, CONNECTOR (PC BOARD) 5P
CN3014	1-564-521-11	o	PLUG,CONNECTOR (6P)(L-TYPE)
CN3015	1-564-521-11	s	PLUG,CONNECTOR (6P)(L-TYPE)
D3001	8-719-800-76	s	DIODE 1SS226
D3002	8-719-800-76	s	DIODE 1SS226
D3003	8-719-800-76	s	DIODE 1SS226
D3004	8-719-800-76	s	DIODE 1SS226
D3005	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D3006	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D3007	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D3008	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D3009	8-719-800-76	s	DIODE 1SS226
D3010	8-719-800-76	s	DIODE 1SS226
D3011	8-719-800-76	s	DIODE 1SS226
D3012	8-719-800-76	s	DIODE 1SS226
D3013	8-719-800-76	s	DIODE 1SS226
D3014	8-719-800-76	s	DIODE 1SS226
D3015	8-719-083-82	s	DIODE UDZS-TE17-12B
D3016	8-719-083-82	s	DIODE UDZS-TE17-12B
D3017	8-719-083-82	s	DIODE UDZS-TE17-12B
D3018	8-719-083-82	s	DIODE UDZS-TE17-12B
D3019	8-719-921-40	s	DIODE MTZJ4.7C
D3020	8-719-921-40	s	DIODE MTZJ4.7C
D3021	8-719-083-60	s	DIODE UDZSTE-174.7B
D3022	8-719-083-60	s	DIODE UDZSTE-174.7B
D3023	8-719-921-40	s	DIODE MTZJ4.7C
D3024	8-719-921-40	s	DIODE MTZJ4.7C
D3025	8-719-083-60	s	DIODE UDZSTE-174.7B

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
D3026	8-719-083-60	s	DIODE UDZSTE-174.7B
D3027	8-719-036-94	s	DIODE RD5.6SB-T1
D3028	8-719-059-22	s	DIODE NSQ03A06-TE16L
D3035	8-719-977-28	s	DIODE DTZ10B
D3036	8-719-977-28	s	DIODE DTZ10B
D3037	8-719-977-28	s	DIODE DTZ10B
D3038	8-719-977-28	s	DIODE DTZ10B
D3042	8-719-073-01	s	DIODE MA111-(K8).S0
D3043	8-719-041-97	s	DIODE MA113-TX
D3044	8-719-991-00	s	DIODE DAP222
D3048	8-719-025-47	s	DIODE 02CZ12-TE85L
D3049	8-719-025-47	s	DIODE 02CZ12-TE85L
D3050	8-719-025-47	s	DIODE 02CZ12-TE85L
D3051	8-719-025-47	s	DIODE 02CZ12-TE85L
D3052	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D3053	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D3054	8-719-025-47	s	DIODE 02CZ12-TE85L
D3055	8-719-025-47	s	DIODE 02CZ12-TE85L
D3056	8-719-025-47	s	DIODE 02CZ12-TE85L
D3057	8-719-025-47	s	DIODE 02CZ12-TE85L
D3060	8-719-977-28	s	DIODE DTZ10B
D3061	8-719-977-28	s	DIODE DTZ10B
D3062	8-719-056-23	s	DIODE MA2S111-(K8)
D3063	8-719-110-78	s	DIODE RD33ESB2
D3064	8-719-110-78	s	DIODE RD33ESB2
D3065	8-719-110-78	s	DIODE RD33ESB2
D3066	8-719-110-78	s	DIODE RD33ESB2
D3067	8-719-110-31	s	DIODE RD12ESB2
FB3001	1-414-234-11	s	INDUCTOR,FERRITE BEAD
FB3002	1-414-234-11	s	INDUCTOR,FERRITE BEAD
FB3003	1-414-234-11	s	INDUCTOR,FERRITE BEAD
FB3004	1-414-234-11	s	INDUCTOR,FERRITE BEAD
FB3005	1-414-234-11	s	INDUCTOR,FERRITE BEAD
FB3006	1-414-234-11	s	INDUCTOR,FERRITE BEAD
FB3007	1-410-396-41	s	FERRITE BEAD INDUCTOR (0.45UH)
FB3101	1-410-396-41	s	FERRITE BEAD INDUCTOR (0.45UH)
IC3001	8-759-697-54	s	IC BR24C21F-E2
IC3002	8-759-697-54	s	IC BR24C21F-E2
IC3003	8-759-541-25	s	IC M52758FP
IC3004	8-759-541-25	s	IC M52758FP
IC3005	8-759-011-64	s	IC MC74HC4052F
IC3006	8-759-541-25	s	IC M52758FP
IC3007	8-759-700-07	s	IC NJM2903M
IC3008	8-759-460-81	s	IC BA12FP-E2
IC3010	6-700-571-01	s	IC TK15452V
IC3011	8-759-331-71	s	IC NJM4558E (TE2)
IC3012	8-759-172-60	s	IC TA8776N
IC3014	6-700-481-01	s	IC TDA7480
IC3015	6-700-481-01	s	IC TDA7480
IC3016	8-759-335-28	s	IC TA78M09F (TE16L)
IC3017	8-759-232-44	s	IC TC74HC125AF
IC3018	8-759-252-59	s	IC MAX202CSE
IC3019	8-759-439-67	s	IC TC7W126FU(TE12R)
IC3020	8-759-327-60	s	IC TC7W125FU-TE12R
IC3022	8-759-351-01	s	IC TEA6422DT
IC3023	8-759-673-52	s	IC MM74HC32MTCX

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP Description
J3001	1-793-183-11	s CONNECTOR, D SUB 15P(INPUT2)
J3002	1-793-183-11	s CONNECTOR, D SUB 15P(INPUT1)
J3003	1-566-822-21	s JACK (INPUT1 AUDIO)
J3004	1-566-822-21	s JACK (INPUT2 AUDIO)
J3005	1-563-330-11	s JACK (3.5MM) (SIRCS IN)
J3006	1-563-330-11	s JACK (3.5MM) (SIRCS OUT)
J3007	1-565-269-31	s SOCKET,CONNECTOR(D-DUB,L)9P (REMOTE)
JR3002	1-216-295-91	s CONDUCTOR, CHIP (2012)
L3001	1-406-666-21	s COIL, CHOKE 150UH
L3002	1-406-666-21	s COIL, CHOKE 150UH
L3003	1-412-029-11	s CHIP INDUCTOR 10UH (3225)
L3004	1-416-857-11	s COIL, CHOKE (TROIDAL) 65UH
L3005	1-416-857-11	s COIL, CHOKE (TROIDAL) 65UH
L3006	1-412-029-11	s CHIP INDUCTOR 10UH (3225)
Q3001	8-729-928-81	s TRANSISTOR DTC144EE
Q3002	8-729-928-81	s TRANSISTOR DTC144EE
Q3003	8-729-112-65	s TRANSISTOR 2SA1462
Q3004	8-729-112-65	s TRANSISTOR 2SA1462
Q3005	8-729-112-65	s TRANSISTOR 2SA1462
Q3006	8-729-928-81	s TRANSISTOR DTC144EE
Q3007	1-801-806-11	s TRANSISTOR DTC144EKA
Q3008	1-801-806-11	s TRANSISTOR DTC144EKA
Q3009	8-729-026-49	s TRANSISTOR 2SA1037AK-T146-R
Q3010	8-729-927-99	s TRANSISTOR 2SC4617R
Q3011	8-729-041-37	s TRANSISTOR 2SJ377(Te16L)
Q3017	8-729-928-81	s TRANSISTOR DTC144EE
Q3019	8-729-216-22	s TRANSISTOR 2SA1162-G
Q3021	8-729-928-81	s TRANSISTOR DTC144EE
Q3024	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q3025	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q3029	8-729-928-81	s TRANSISTOR DTC144EE
Q3030	8-729-927-99	s TRANSISTOR 2SC4617R
Q3032	8-729-928-27	s TRANSISTOR DTA144EE
R3001	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3002	1-216-841-11	s RESISTOR, CHIP 47K 1/16W 1608
R3003	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3004	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3005	1-216-841-11	s RESISTOR, CHIP 47K 1/16W 1608
R3006	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3007	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3008	1-218-666-11	s RESISTOR,CHIP 82 1/16W (1608)
R3009	1-218-666-11	s RESISTOR,CHIP 82 1/16W (1608)
R3010	1-218-666-11	s RESISTOR,CHIP 82 1/16W (1608)
R3011	1-218-666-11	s RESISTOR,CHIP 82 1/16W (1608)
R3012	1-218-666-11	s RESISTOR,CHIP 82 1/16W (1608)
R3013	1-218-666-11	s RESISTOR,CHIP 82 1/16W (1608)
R3014	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3015	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3016	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3017	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3018	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3019	1-216-825-11	s RESISTOR,CHIP 2.2K 1/16W 1608
R3020	1-216-825-11	s RESISTOR,CHIP 2.2K 1/16W 1608
R3021	1-216-825-11	s RESISTOR,CHIP 2.2K 1/16W 1608
R3022	1-216-825-11	s RESISTOR,CHIP 2.2K 1/16W 1608
R3023	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3024	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3025	1-216-813-11	s RESISTOR, CHIP 220 1/16W 1608

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R3026	1-216-813-11	s RESISTOR, CHIP 220 1/16W 1608
R3027	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3028	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3029	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3030	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3031	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3032	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3033	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3034	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3035	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3036	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3038	1-216-864-11	s CONDUCTOR, CHIP (1608)
R3039	1-216-864-11	s CONDUCTOR, CHIP (1608)
R3041	1-216-811-11	s RESISTOR, CHIP 150 1/16W(1608)
R3042	1-216-811-11	s RESISTOR, CHIP 150 1/16W(1608)
R3043	1-216-811-11	s RESISTOR, CHIP 150 1/16W(1608)
R3044	1-216-809-11	s RESISTOR,CHIP 100 1/16W 1608
R3045	1-216-811-11	s RESISTOR, CHIP 150 1/16W(1608)
R3046	1-216-811-11	s RESISTOR, CHIP 150 1/16W(1608)
R3047	1-216-811-11	s RESISTOR, CHIP 150 1/16W(1608)
R3048	1-216-809-11	s RESISTOR,CHIP 100 1/16W 1608
R3049	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3050	1-216-817-11	s RESISTOR,CHIP 470 1/16W 1608
R3051	1-216-817-11	s RESISTOR,CHIP 470 1/16W 1608
R3052	1-216-817-11	s RESISTOR,CHIP 470 1/16W 1608
R3053	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3054	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3055	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3056	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3057	1-216-805-11	s RESISTOR,CHIP 47 1/16W 1608
R3058	1-216-864-11	s CONDUCTOR, CHIP (1608)
R3059	1-216-864-11	s CONDUCTOR, CHIP (1608)
R3060	1-216-864-11	s CONDUCTOR, CHIP (1608)
R3061	1-216-819-11	s RESISTOR,CHIP 680 1/16W 1608
R3062	1-216-819-11	s RESISTOR,CHIP 680 1/16W 1608
R3063	1-216-819-11	s RESISTOR,CHIP 680 1/16W 1608
R3064	1-216-837-11	s RESISTOR,CHIP 22K 1/16W 1608
R3065	1-216-833-11	s RESISTOR,CHIP 10K 1/16W (1608)
R3066	1-216-836-11	s RESISTOR, CHIP 18K 1/16W 1608
R3067	1-216-832-11	s RESISTOR,CHIP 8.2K 1/16W 1608
R3068	1-216-839-11	s RESISTOR,CHIP 33K 1/16W 1608
R3069	1-216-809-11	s RESISTOR,CHIP 100 1/16W 1608
R3070	1-216-826-11	s RESISTOR,CHIP 2.7K 1/16W(1608)
R3071	1-216-841-11	s RESISTOR, CHIP 47K 1/16W 1608
R3072	1-216-841-11	s RESISTOR, CHIP 47K 1/16W 1608
R3073	1-249-381-11	s RES,CARBON 1 (1/4W)
R3074	1-216-833-11	s RESISTOR,CHIP 10K 1/16W (1608)
R3075	1-216-797-11	s RESISTOR,CHIP 10 1/16W 1608
R3076	1-216-833-11	s RESISTOR,CHIP 10K 1/16W (1608)
R3077	1-216-797-11	s RESISTOR,CHIP 10 1/16W 1608
R3078	1-216-825-11	s RESISTOR,CHIP 2.2K 1/16W 1608
R3081	1-216-825-11	s RESISTOR,CHIP 2.2K 1/16W 1608
R3085	1-216-849-11	s RESISTOR,CHIP 220K 1/16W 1608
R3086	1-216-849-11	s RESISTOR,CHIP 220K 1/16W 1608
R3087	1-216-849-11	s RESISTOR,CHIP 220K 1/16W 1608
R3088	1-216-849-11	s RESISTOR,CHIP 220K 1/16W 1608
R3092	1-218-867-11	s RESISTOR,CHIP 6.8K 1/10W(1608)
R3093	1-218-869-11	s RESISTOR,CHIP 8.2K 1/10W(1608)
R3094	1-218-839-11	s RESISTOR,CHIP 470 1/10W (1608)
R3095	1-218-825-11	s RESISTOR,CHIP 120 1/10W (1608)

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R3096	1-218-825-11	s	RESISTOR,CHIP 120 1/10W (1608)
R3097	1-218-839-11	s	RESISTOR,CHIP 470 1/10W (1608)
R3098	1-218-867-11	s	RESISTOR,CHIP 6.8K 1/10W(1608)
R3099	1-218-871-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R3101	1-216-827-11	s	RESISTOR, CHIP 3.3K 1/16W 1608
R3102	1-216-830-11	s	RESISTOR,CHIP 5.6K 1/16W 1608
R3103	1-216-827-11	s	RESISTOR, CHIP 3.3K 1/16W 1608
R3104	1-216-830-11	s	RESISTOR,CHIP 5.6K 1/16W 1608
R3105	1-218-825-11	s	RESISTOR,CHIP 120 1/10W (1608)
R3106	1-218-839-11	s	RESISTOR,CHIP 470 1/10W (1608)
R3107	1-218-867-11	s	RESISTOR,CHIP 6.8K 1/10W(1608)
R3108	1-218-869-11	s	RESISTOR,CHIP 8.2K 1/10W(1608)
R3110	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R3111	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R3112	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R3113	1-216-826-11	s	RESISTOR,CHIP 2.7K 1/16W(1608)
R3114	1-216-826-11	s	RESISTOR,CHIP 2.7K 1/16W(1608)
R3115	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R3116	1-216-837-11	s	RESISTOR,CHIP 22K 1/16W 1608
R3117	1-216-837-11	s	RESISTOR,CHIP 22K 1/16W 1608
R3118	1-216-837-11	s	RESISTOR,CHIP 22K 1/16W 1608
R3119	1-216-837-11	s	RESISTOR,CHIP 22K 1/16W 1608
R3120	1-216-834-11	s	RESISTOR,CHIP 12K 1/16W 1608
R3121	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R3122	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R3123	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R3125	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R3126	1-216-837-11	s	RESISTOR,CHIP 22K 1/16W 1608
R3127	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R3128	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R3129	1-216-857-11	s	RESISTOR,CHIP 1M 1/16W(1608)
R3132	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R3133	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R3134	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R3135	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R3136	1-216-852-11	s	RESISTOR,CHIP 390K 1/16W 1608
R3137	1-216-839-11	s	RESISTOR,CHIP 33K 1/16W 1608
R3138	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R3139	1-216-839-11	s	RESISTOR,CHIP 33K 1/16W 1608
R3141	1-216-834-11	s	RESISTOR,CHIP 12K 1/16W 1608
R3142	1-216-832-11	s	RESISTOR,CHIP 8.2K 1/16W 1608
R3143	1-218-823-11	s	RESISTOR,CHIP 100 1/10W (1608)
R3144	1-218-823-11	s	RESISTOR,CHIP 100 1/10W (1608)
R3145	1-218-823-11	s	RESISTOR,CHIP 100 1/10W (1608)
R3147	1-216-811-11	s	RESISTOR, CHIP 150 1/16W(1608)
R3148	1-216-811-11	s	RESISTOR, CHIP 150 1/16W(1608)
R3153	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R3154	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R3155	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R3156	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R3157	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R3158	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R3159	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R3160	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R3161	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R3162	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R3163	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R3164	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R3168	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R3169	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R3170	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R3171	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R3172	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R3173	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R3183	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R3184	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R3185	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R3186	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R3187	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R3188	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R3189	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R3190	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R3191	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R3192	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R3193	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R3194	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R3195	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R3196	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R3197	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
S3001	1-553-510-11	s	SWITCH, SLIDE

QA BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1270-443-A	o MOUNTED CIRCUIT BOARD, QA
C9501	1-126-964-11	s CAPACITOR, ELECT 10MF/50V
C9502	1-126-964-11	s CAPACITOR, ELECT 10MF/50V
C9503	1-102-129-00	s CAPACITOR,CERAMIC;50V/0.01MF
C9504	1-126-947-11	s CAPACITOR, ELECT 47MF/35V
C9505	1-126-947-11	s CAPACITOR, ELECT 47MF/35V
C9506	1-126-947-11	s CAPACITOR, ELECT 47MF/35V
C9507	1-126-947-11	s CAPACITOR, ELECT 47MF/35V
C9508	1-102-129-00	s CAPACITOR,CERAMIC;50V/0.01MF
C9509	1-126-947-11	s CAPACITOR, ELECT 47MF/35V
C9510	1-102-129-00	s CAPACITOR,CERAMIC;50V/0.01MF
C9511	1-102-129-00	s CAPACITOR,CERAMIC;50V/0.01MF
C9512	1-102-129-00	s CAPACITOR,CERAMIC;50V/0.01MF
CN9501	1-815-409-11	o PIN, CONNECTOR(WITH PC PWB)44P
CN9502	1-566-849-11	s CONNECTOR,(S) TERMINAL 4P(Y/C IN)
CN9503	1-794-872-11	o CONNECTOR, BNC 2P(VIDEO IN/OUT)
D9501	8-719-110-17	s DIODE RD10ES-B2
D9502	8-719-110-17	s DIODE RD10ES-B2
D9503	8-719-110-17	s DIODE RD10ES-B2
D9504	8-719-110-17	s DIODE RD10ES-B2
D9505	8-719-110-17	s DIODE RD10ES-B2
J9501	1-566-822-21	s JACK(AUDIO IN)
Q9501	8-729-119-78	s TRANSISTOR 2SC2785-HFE
Q9502	8-729-119-78	s TRANSISTOR 2SC2785-HFE
Q9503	8-729-119-78	s TRANSISTOR 2SC2785-HFE
R9501	1-215-394-00	s RESISTOR METAL FILM 75 1/4W
R9502	1-249-437-11	s RESISTOR,CARBON 47K 1/4W SMALL
R9503	1-249-437-11	s RESISTOR,CARBON 47K 1/4W SMALL
R9504	1-215-394-00	s RESISTOR METAL FILM 75 1/4W
R9505	1-215-394-00	s RESISTOR METAL FILM 75 1/4W
R9506	1-249-417-11	s RESISTOR,CARBON 1K 1/4W(SMALL)
R9507	1-249-417-11	s RESISTOR,CARBON 1K 1/4W(SMALL)
R9508	1-249-417-11	s RESISTOR,CARBON 1K 1/4W(SMALL)
R9510	1-249-437-11	s RESISTOR,CARBON 47K 1/4W SMALL
R9511	1-249-437-11	s RESISTOR,CARBON 47K 1/4W SMALL
R9512	1-247-843-11	s RESISTOR CARBON (SMALL) 3.3K
R9513	1-249-411-11	s RES,CARBON 330 1/4W SMALL
R9514	1-249-437-11	s RESISTOR,CARBON 47K 1/4W SMALL
R9515	1-249-437-11	s RESISTOR,CARBON 47K 1/4W SMALL
R9516	1-247-843-11	s RESISTOR CARBON (SMALL) 3.3K
R9517	1-249-411-11	s RES,CARBON 330 1/4W SMALL
R9518	1-249-437-11	s RESISTOR,CARBON 47K 1/4W SMALL
R9519	1-249-437-11	s RESISTOR,CARBON 47K 1/4W SMALL
R9520	1-247-843-11	s RESISTOR CARBON (SMALL) 3.3K
R9521	1-249-411-11	s RES,CARBON 330 1/4W SMALL

S BOARD

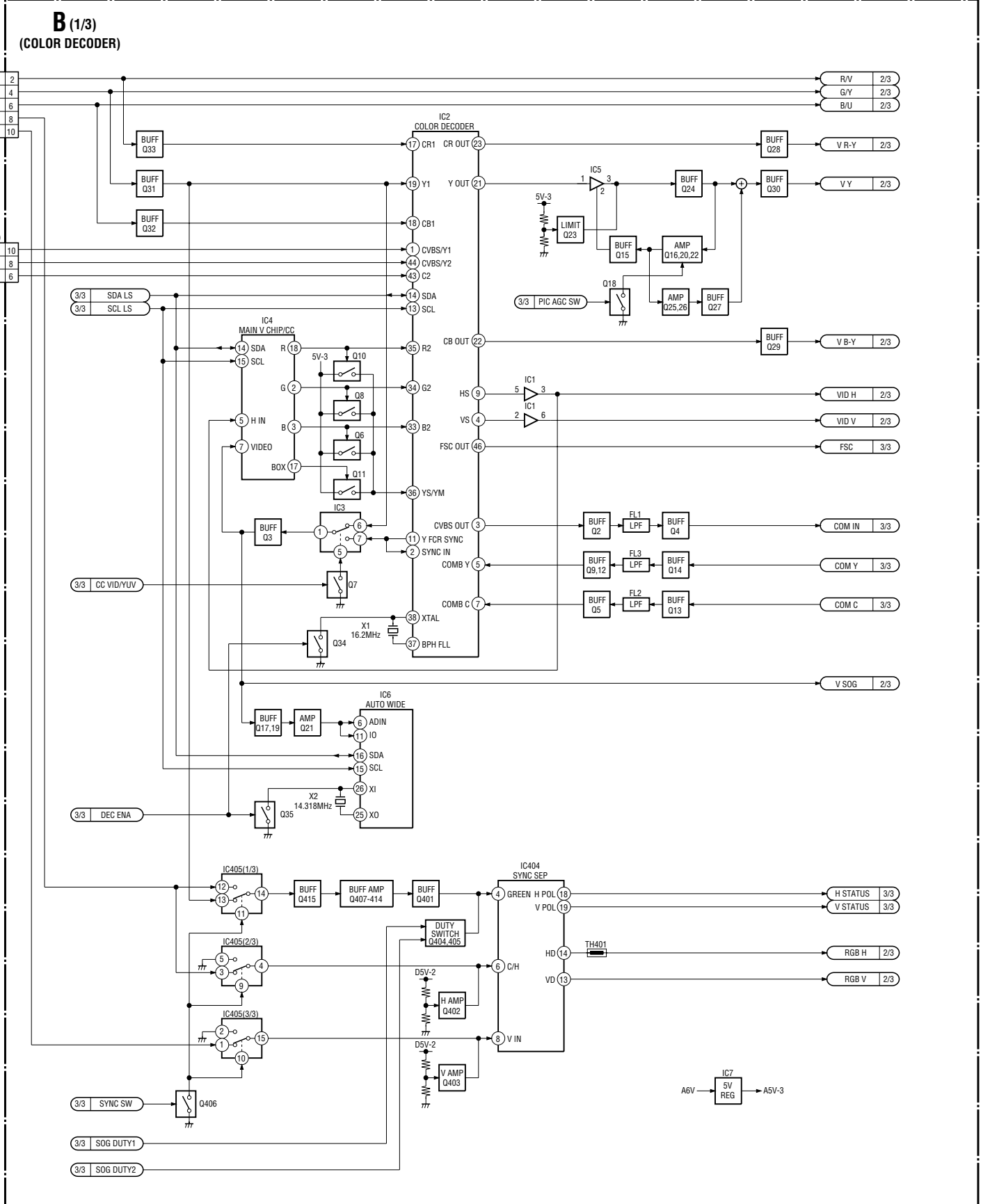
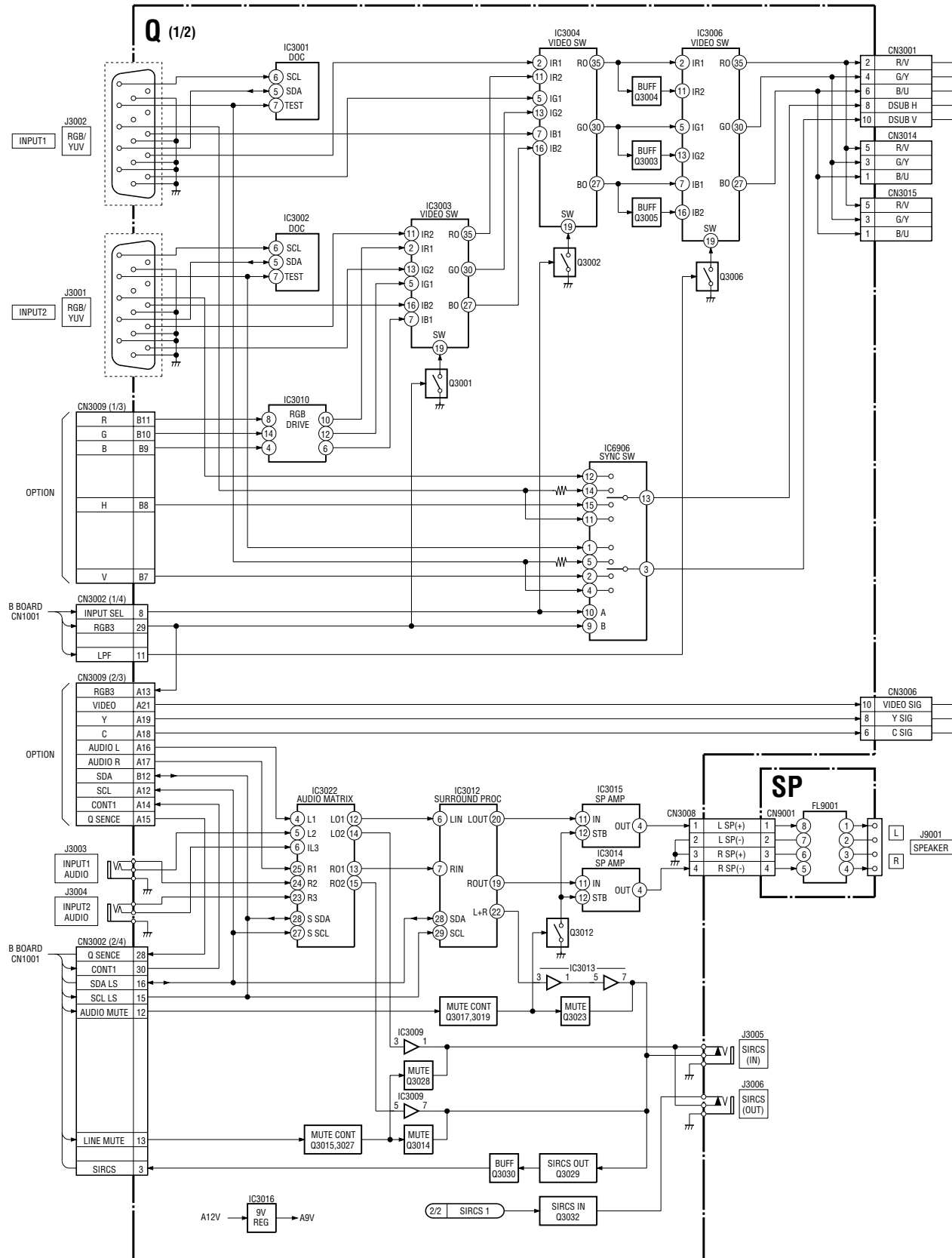
Ref. No. or Q'ty	Part No.	SP Description
3pcs	8-330-030-56	s MOUNTED C.BOARD, S
C1501	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C1502	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C1503	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C1504	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
CN1501	1-506-482-11	s PIN, CONNECTOR 3P
IC1501	8-759-947-34	s IC LM35DZ
IC1502	8-759-144-72	s IC UPC358G2-E2
R1501	1-216-627-11	s RESISTOR,CHIP 100 1/10W (2012)
R1502	1-216-659-11	s RESISTOR,CHIP 2.2K 1/10W(2012)
R1503	1-216-671-11	s RESISTOR,CHIP 6.8K 1/10W(2012)
R1504	1-216-049-11	s RESISTOR, CHIP 1K 1/10W(2012)

SP BOARD

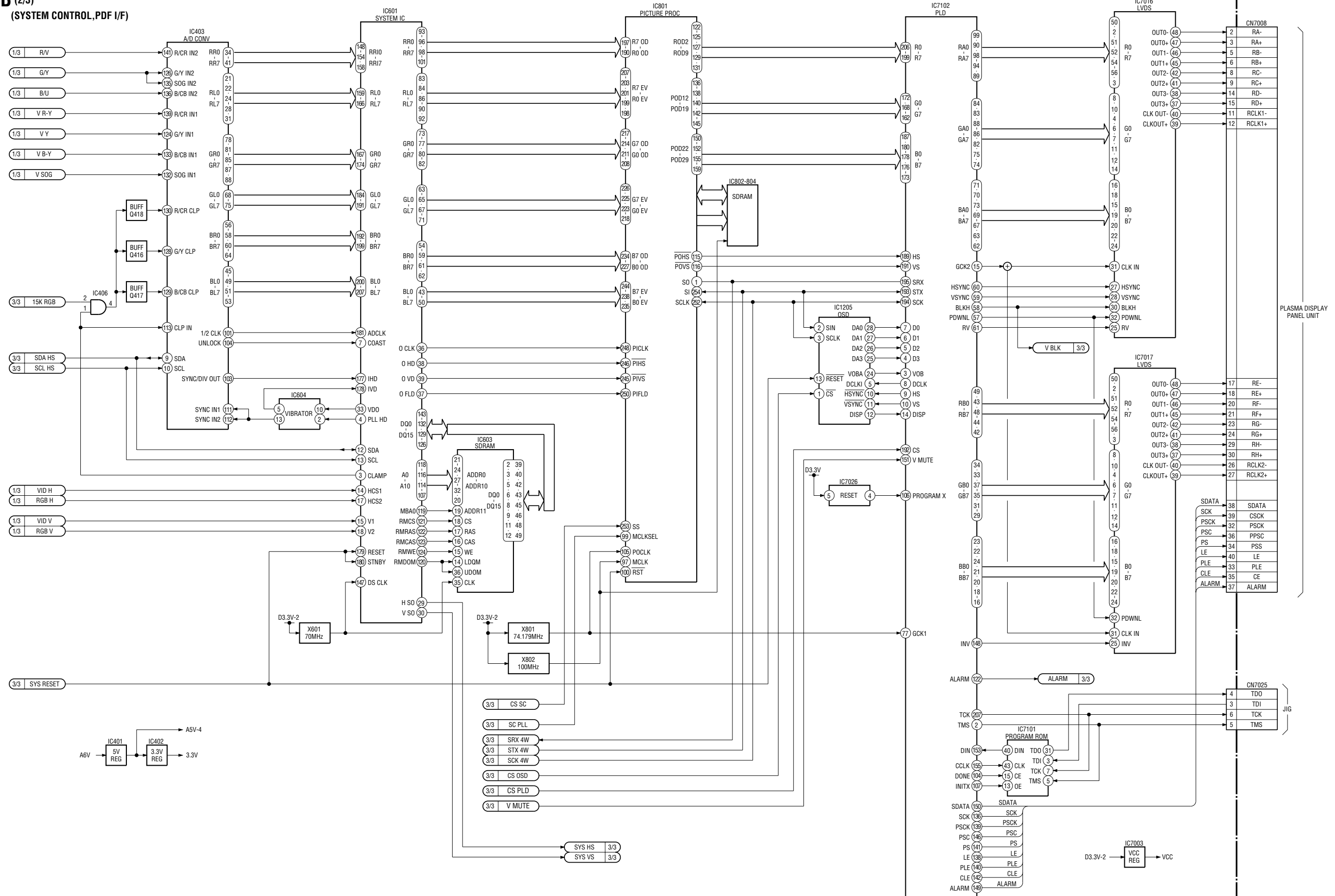
Ref. No. or Q'ty	Part No.	SP Description
1pc	8-330-030-59	s MOUNTED C.BOARD,SP
CN9001	1-506-483-21	s PIN, CONNECTOR 4P
FL9001	1-233-895-11	s FILTER, EMI (ZJY51R5-4P)
J9001	1-536-705-00	s TERMINAL BOARD (SP)
R9001	1-469-869-21	s INDUCTOR (EMI FERRITE) (2012)
R9002	1-469-869-21	s INDUCTOR (EMI FERRITE) (2012)
R9003	1-469-869-21	s INDUCTOR (EMI FERRITE) (2012)
R9004	1-469-869-21	s INDUCTOR (EMI FERRITE) (2012)

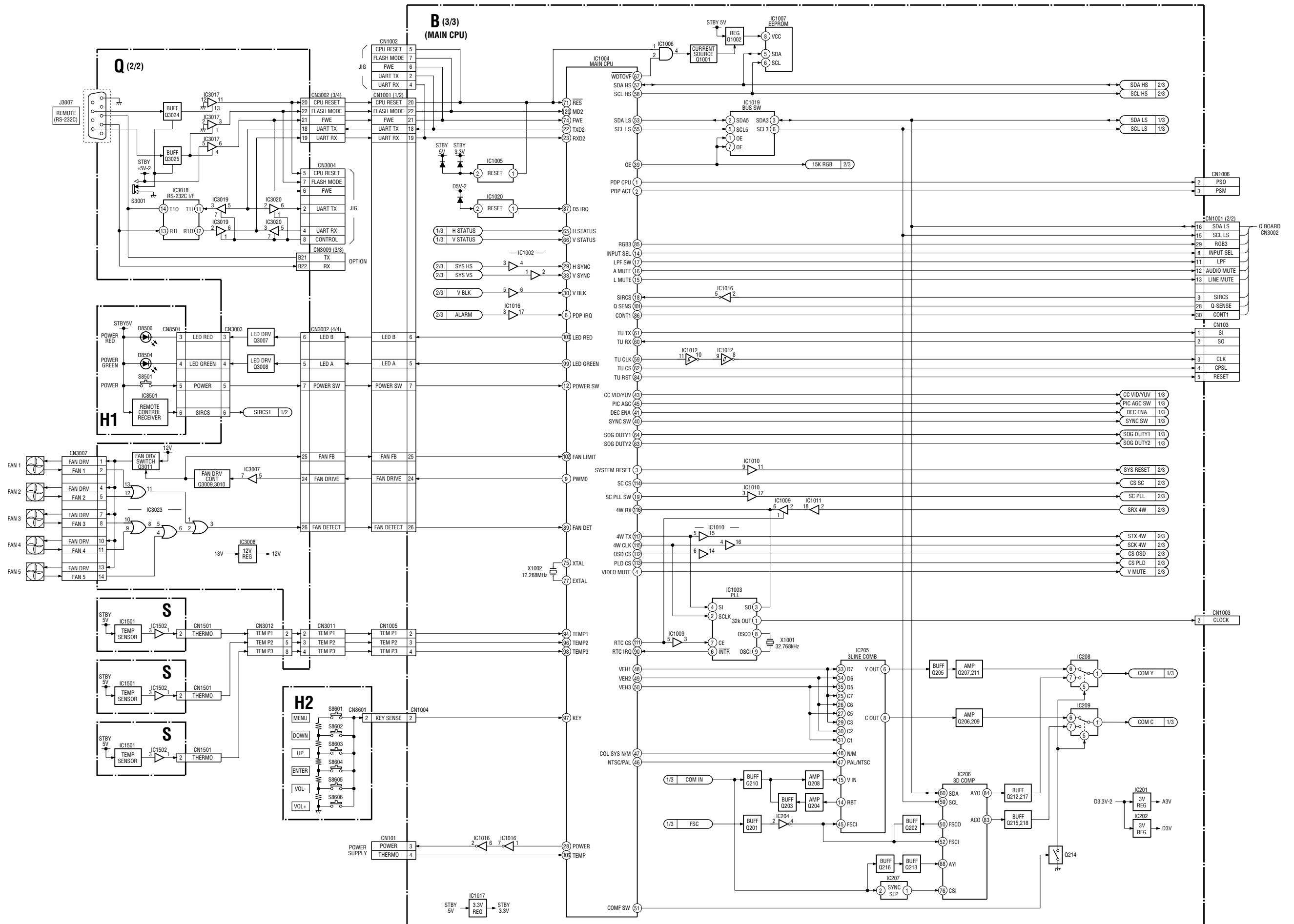
Section 6

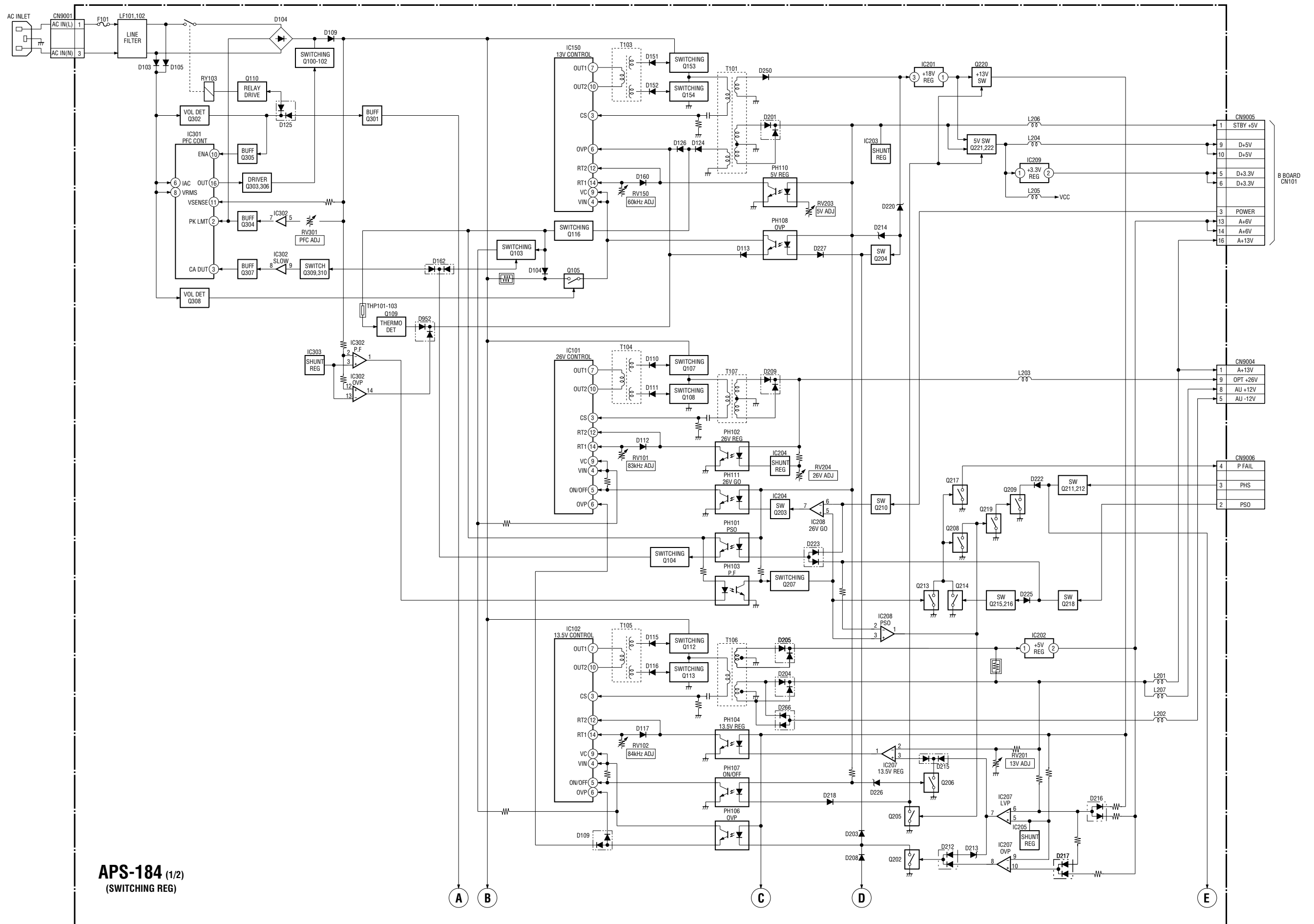
Block Diagrams

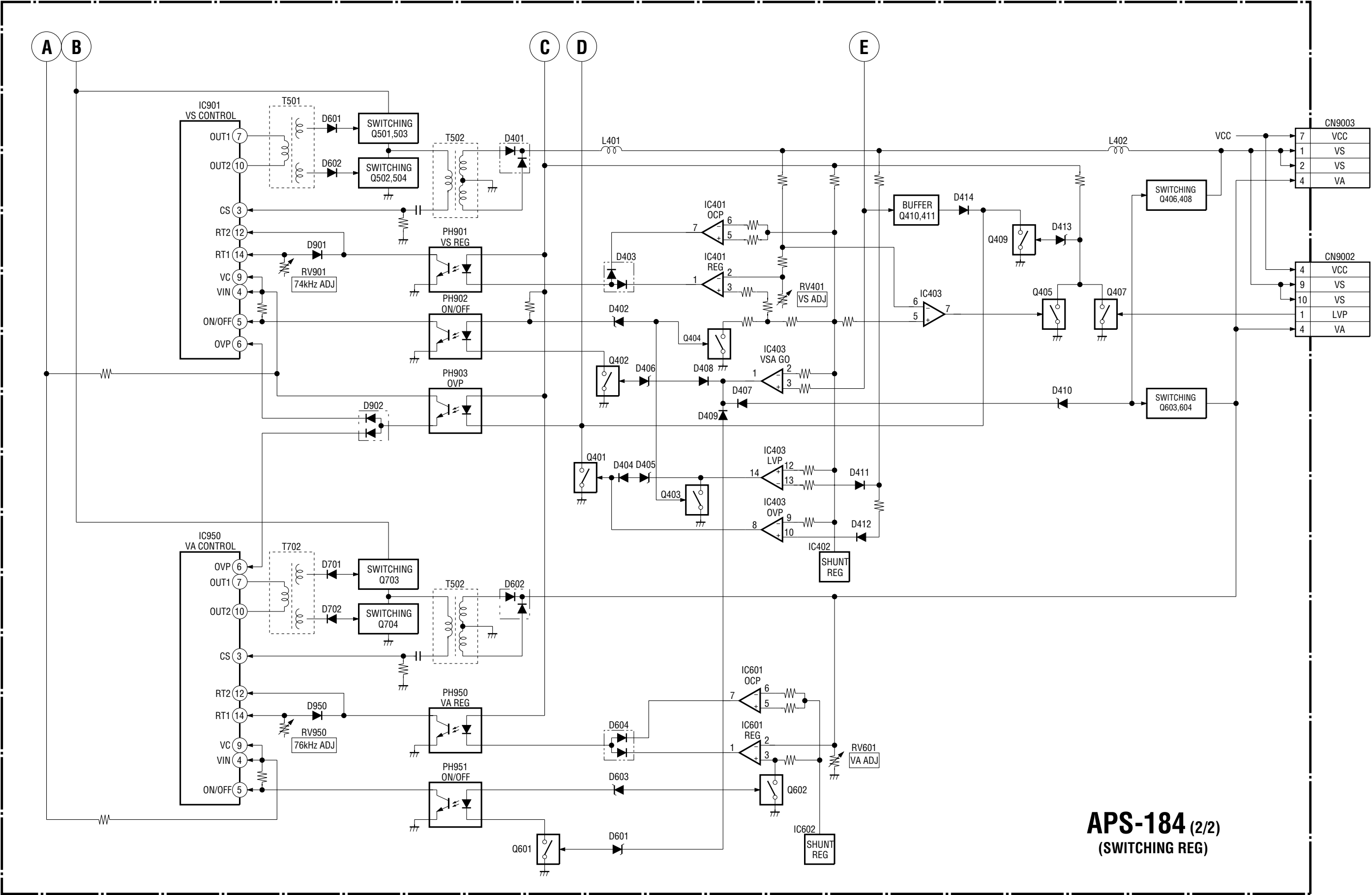


B (2/3)
(SYSTEM CONTROL, PDF I/F)












APS-184 (2/2)
(SWITCHING REG)

Section 7
Diagrams



Note:

- Parts marked “ * ” differ according to the model/destination. Refer to the mount table for each function.
- The parts marked “ # ” on schematic diagrams are not mounted.
- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics.
- All electrolytics are in 50 V unless otherwise specified.
-  : fusible resistor
-  : nonflammable resistor
- Δ : internal component
-  : panel designation and adjustment for repair
- Caution when replacing chip parts
New parts must be attached after removal of the chip.
Be careful not to heat the minus side of a tantalum capacitor, because it is easily damaged by the heat.

Reference information

RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NONFLAMMABLE CARBON
	FUSE	: NONFLAMMABLE FUSIBLE
	RS	: NONFLAMMABLE METAL OXIDE
	RB	: NONFLAMMABLE CEMENT
	RW	: NONFLAMMABLE WIREWOUND
	※	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

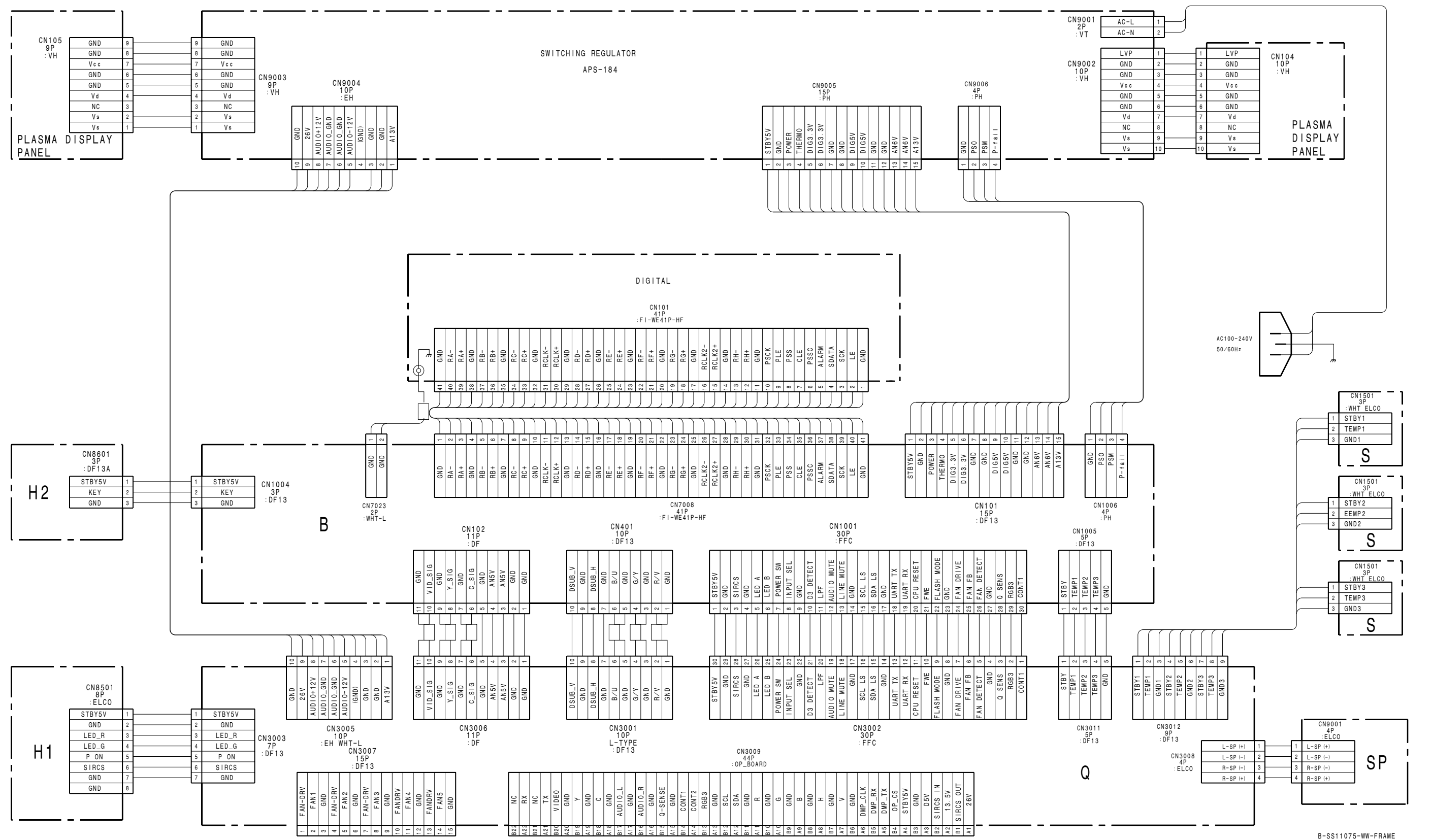
[Measuring conditions, voltage and waveform]

- A voltage value is the reference value between the measurement point and the earth, when the RGB color bar signal is received from the color bar generator. (digital multi-meter used: 10 M ohms/ V DC)
- Unit of voltage is V (volt).
(Voltage variations may occur due to normal production tolerances.)
-  : B line
- No mark : NTSC (3.58 MHz) color bar signal.
-  : Signal path.

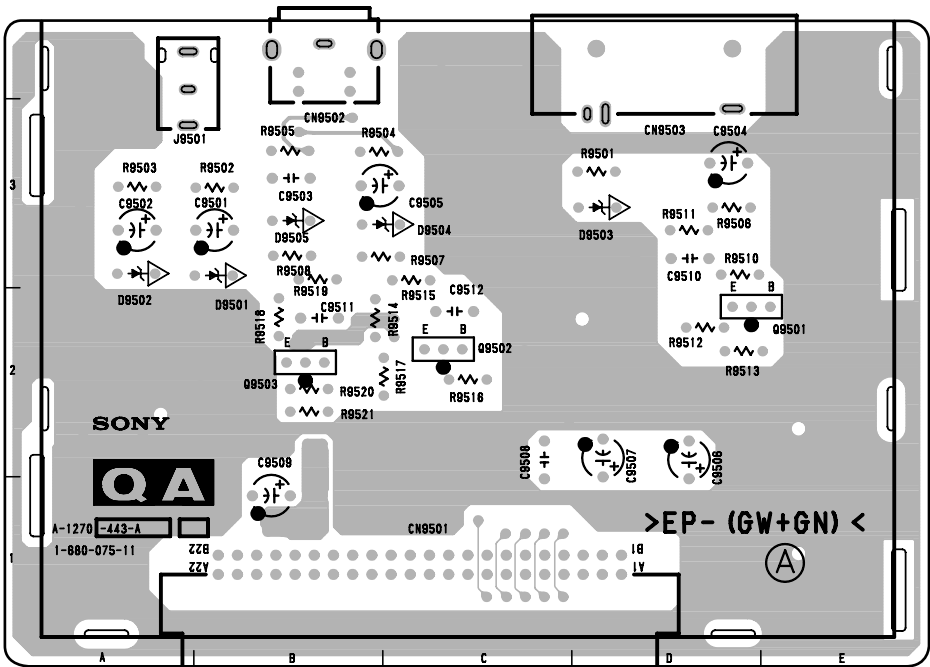
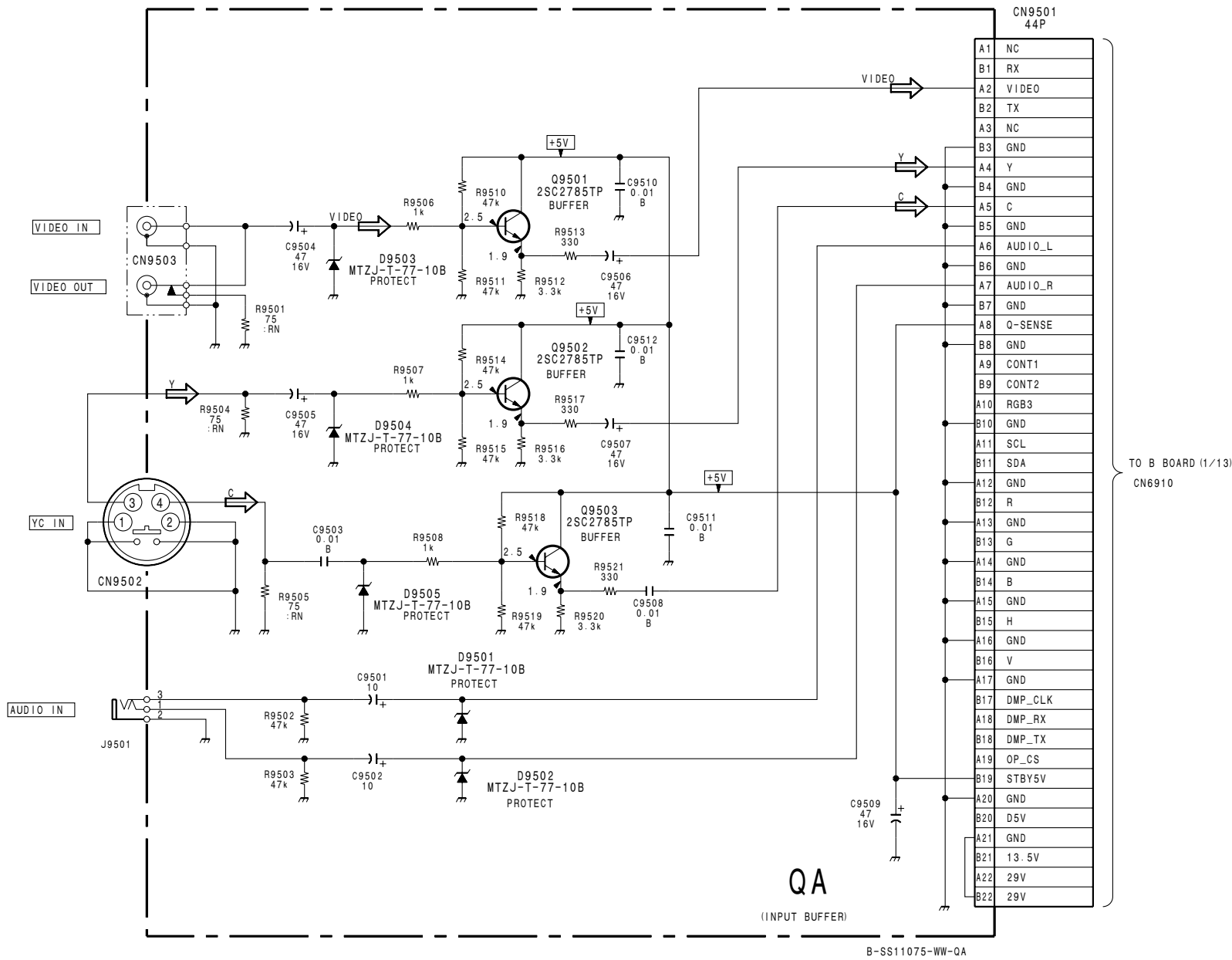
The components identified marked Δ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par la marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

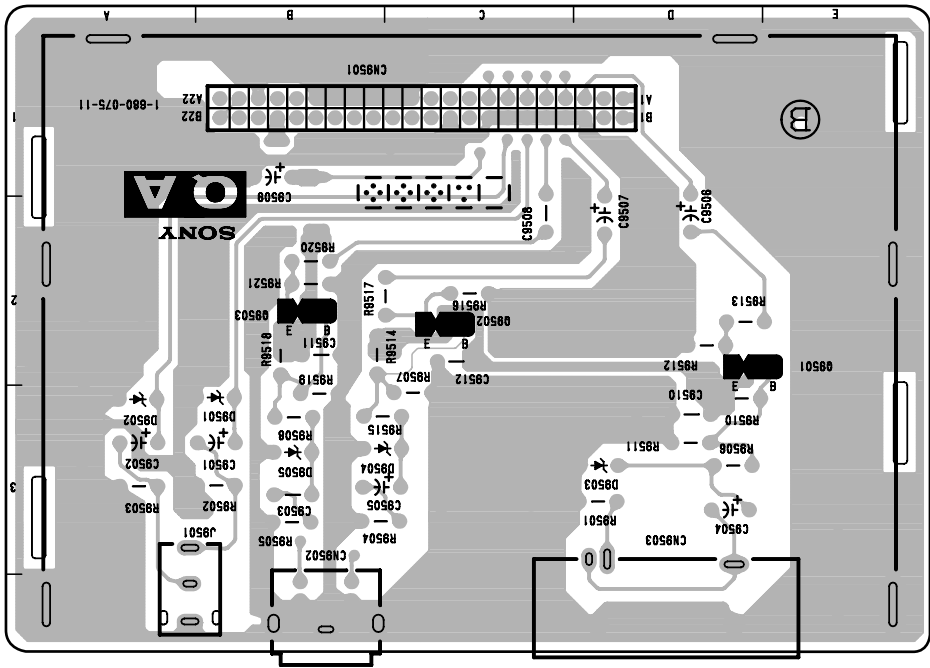
7-1. Frame Schematic Diagrams



7-2. Schematic Diagrams and Printed Wiring Boards



QA -A SIDE-
SUFFIX: -11

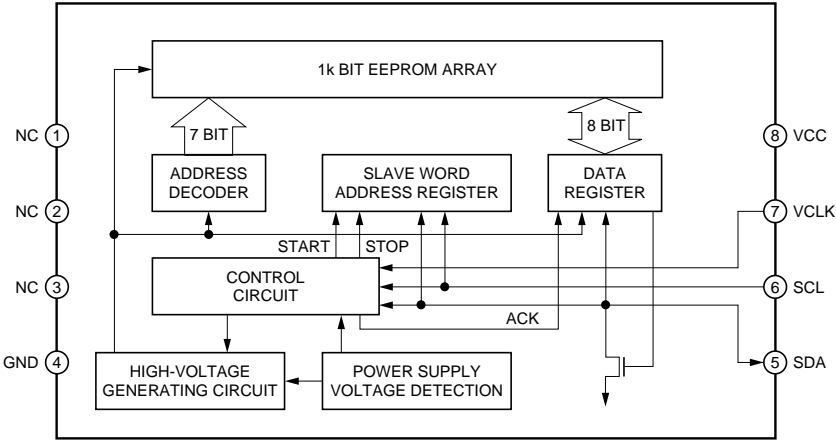


QA -B SIDE-
SUFFIX: -11

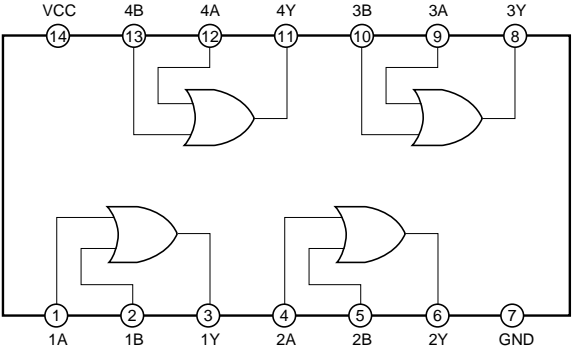
QA BOARD

- D9501 B-3
- D9502 A-3
- D9503 D-3
- D9504 C-3
- D9505 B-3
- Q9501 E-2
- Q9502 C-2
- Q9503 B-2

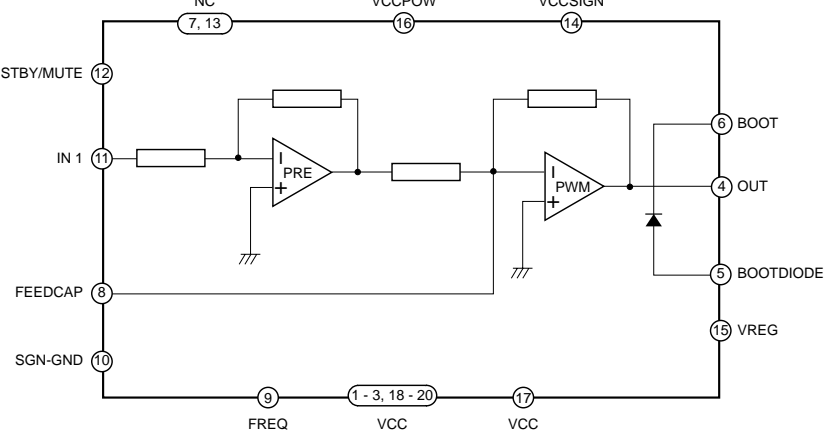
Q (1/3) BR24C21F (IC3002)



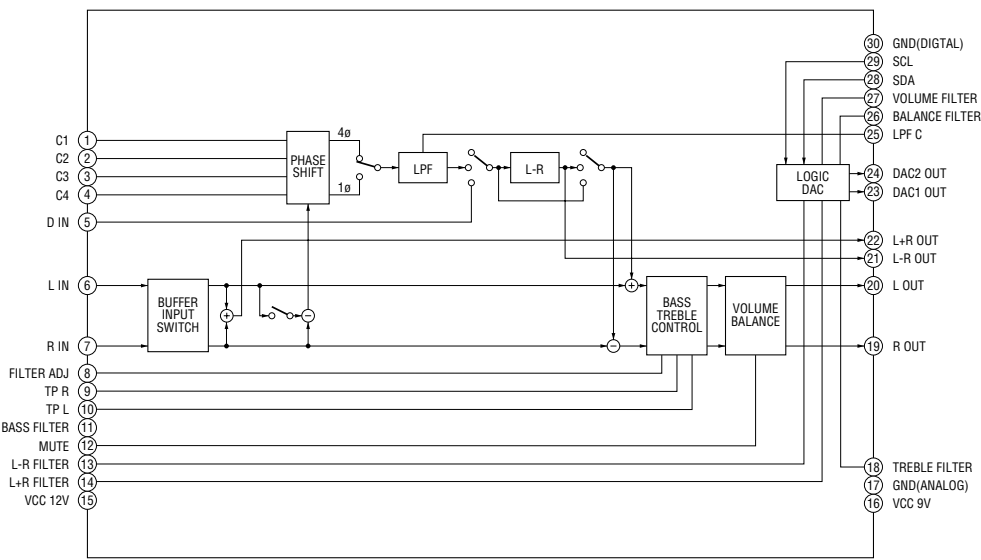
Q (1/3) SN74HC32APWR (IC3023)



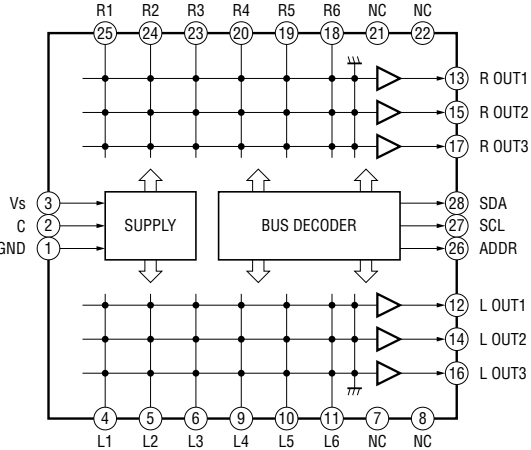
Q (2/3) TDA7480 (IC3014, IC3015)



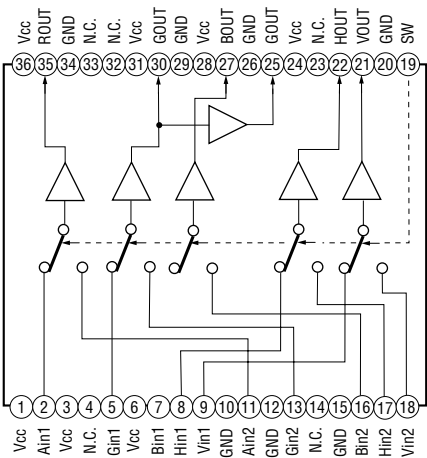
Q (2/3) TA8776N (IC3012)



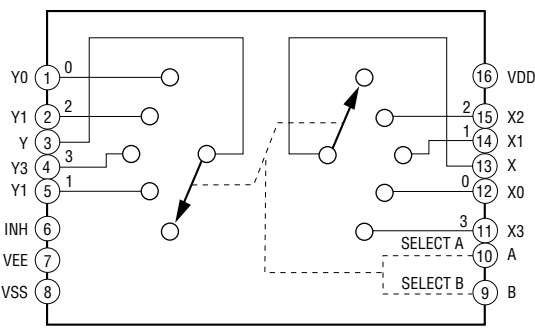
Q (2/3) TEA6422DT (IC3022)



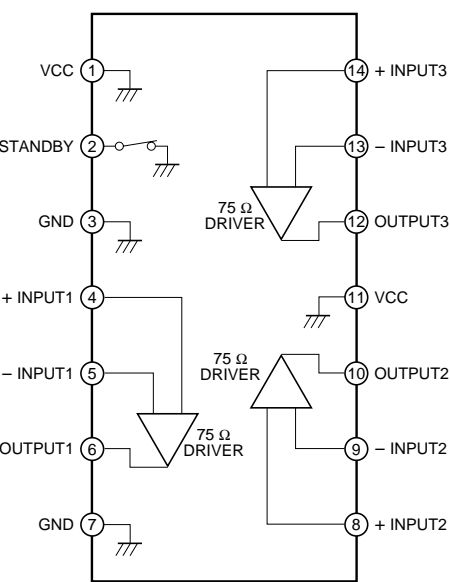
Q (1/3) M52758FP (IC3003, IC3004, IC3006)



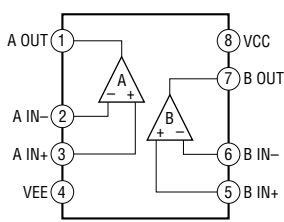
Q (1/3) TC74HC4052AF(EL) (IC3005)

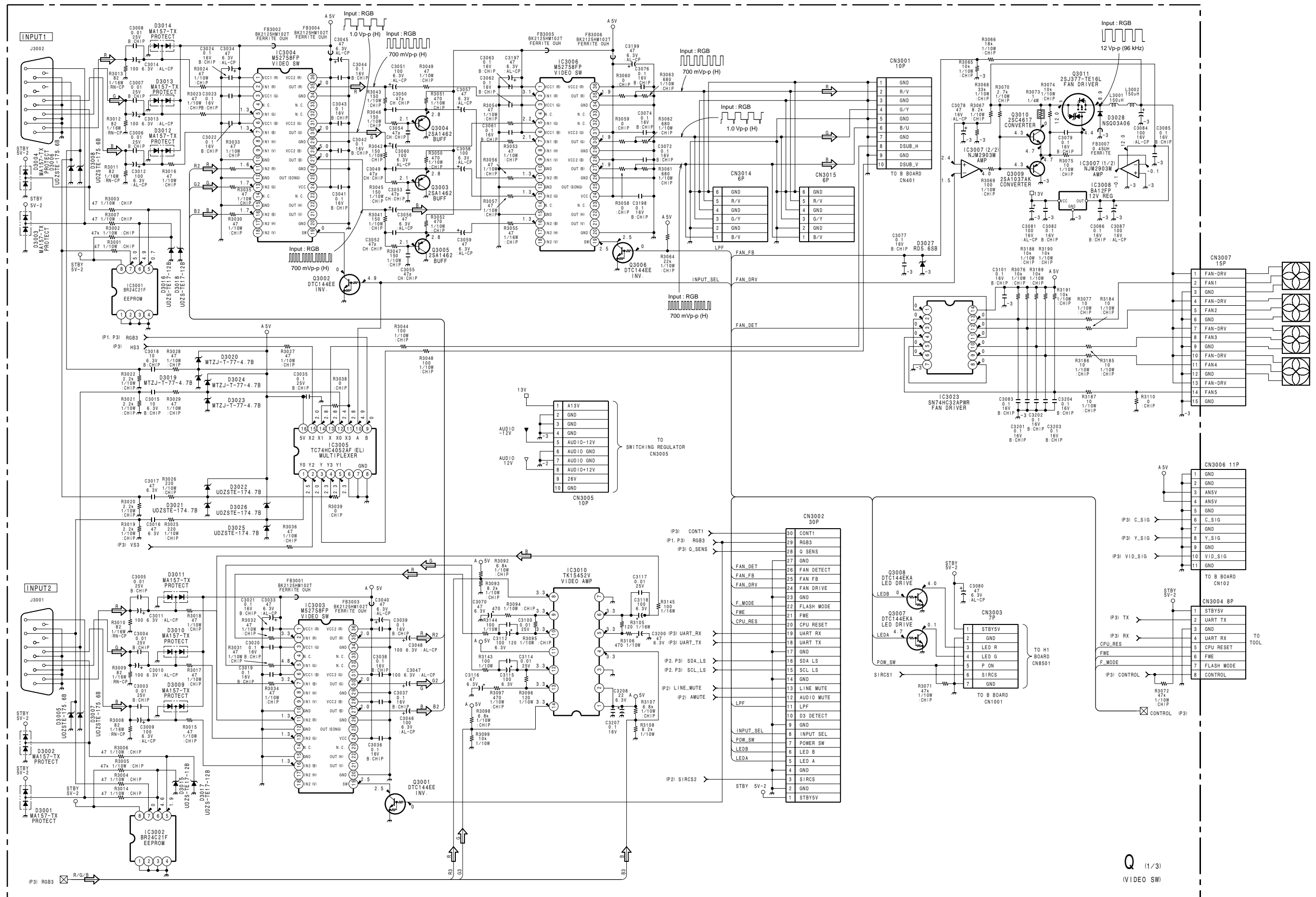


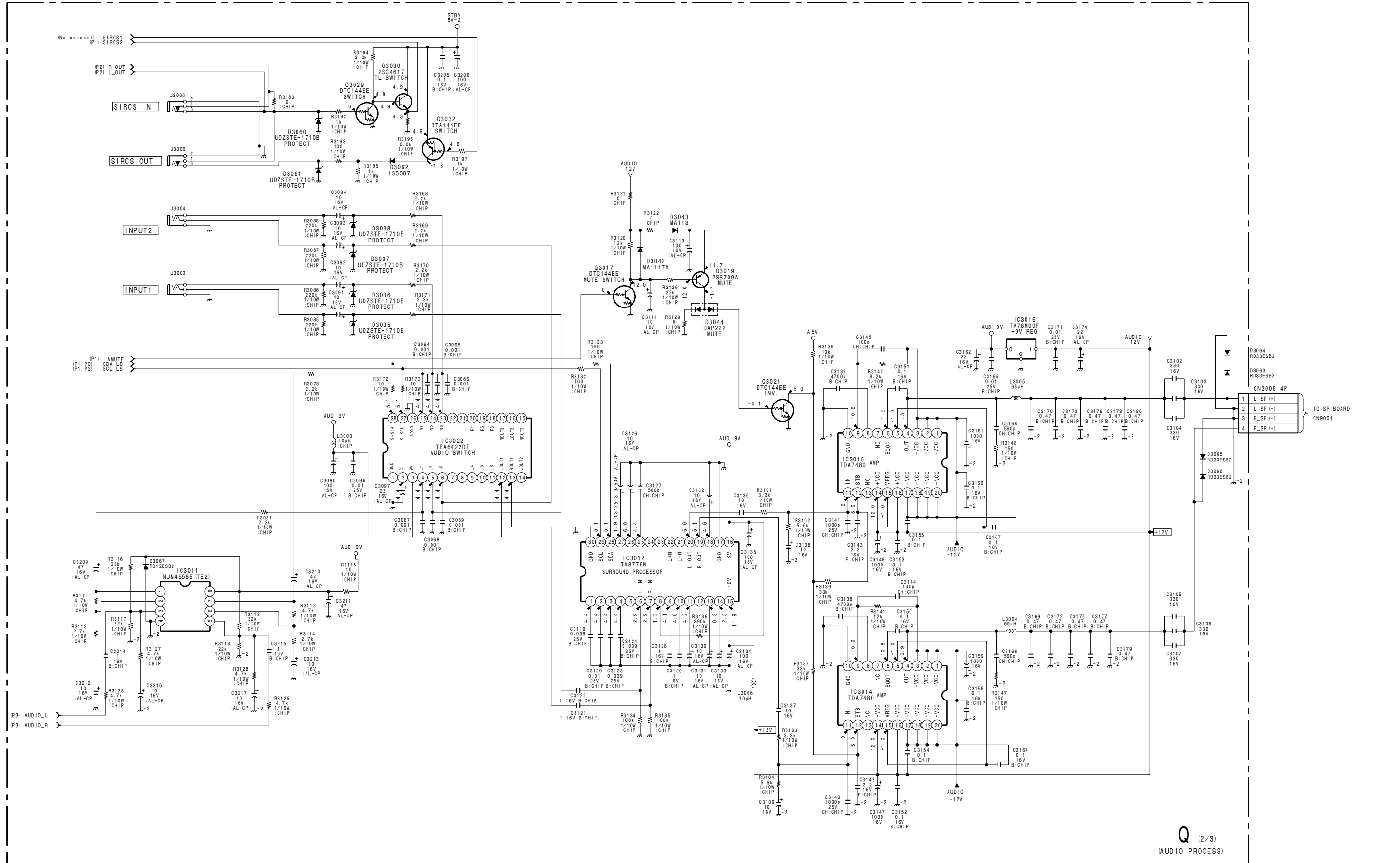
Q (1/3) TK15452V (IC3010)



Q (2/3) NJM4558E(TE2) (IC3011)

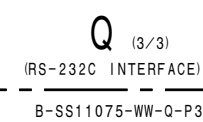






Q (2/3)
(AUDIO PROCESS)

B-SS11075-WW-Q-P2

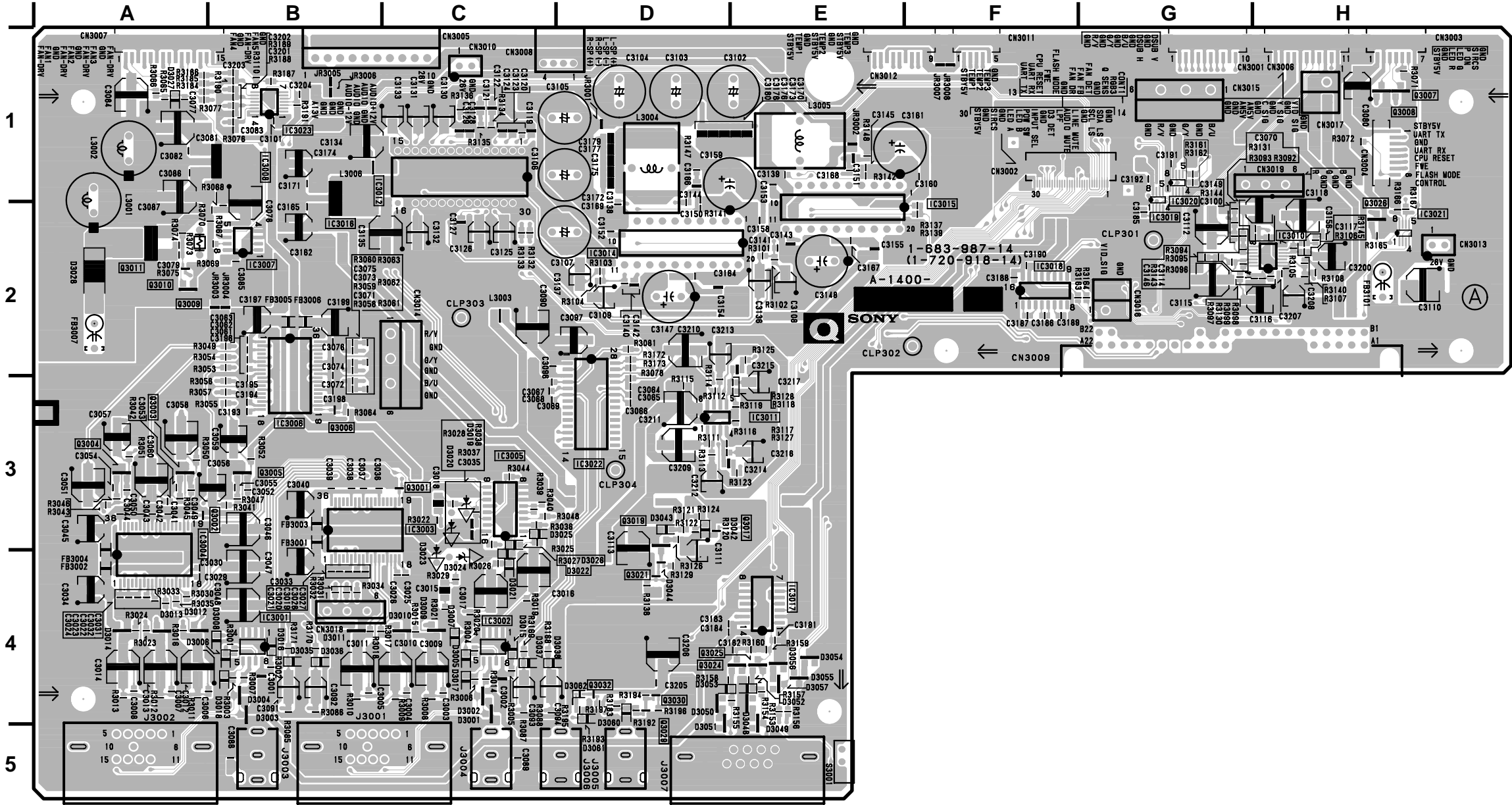


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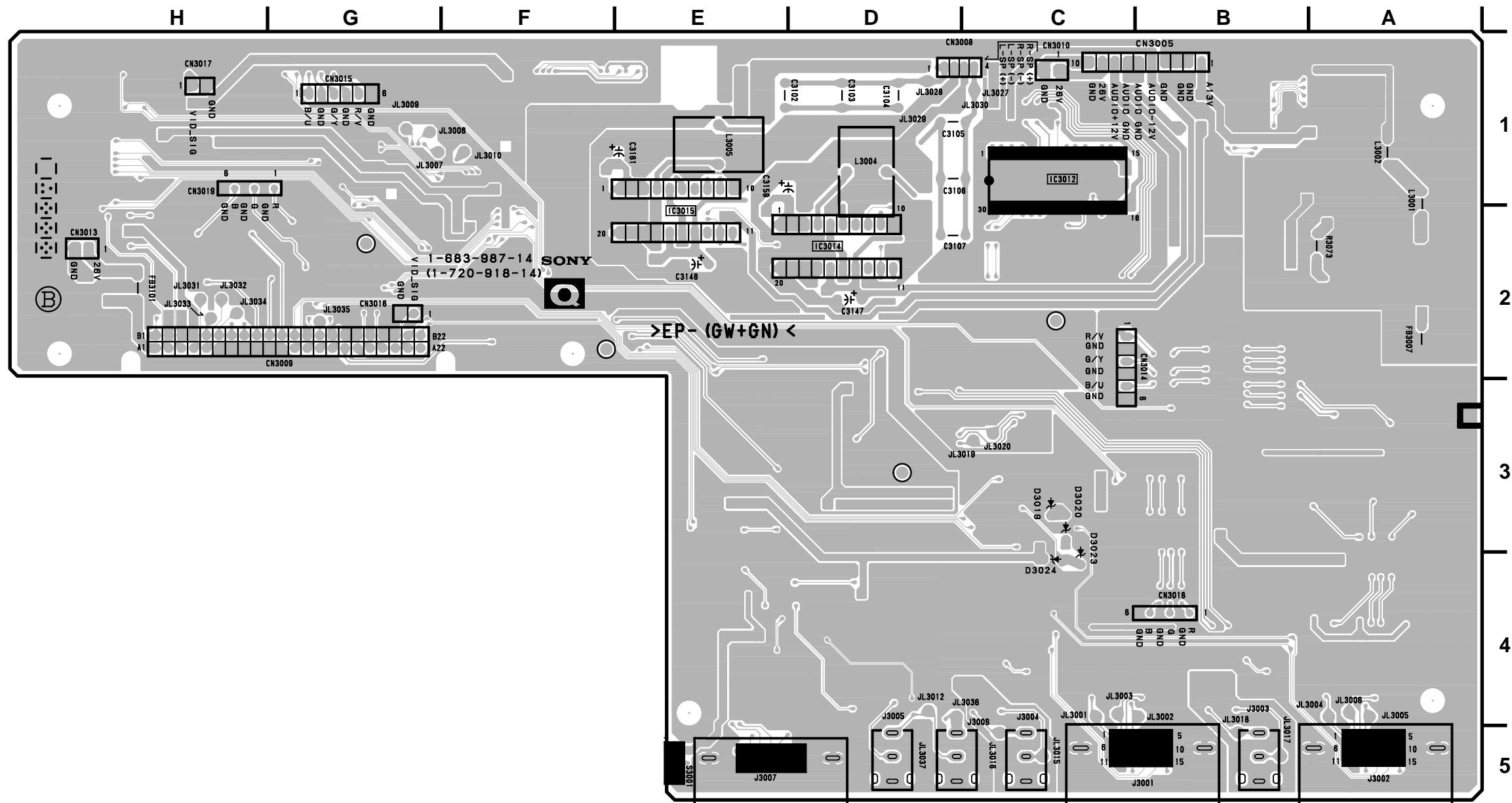
Q BOARD

* : B SIDE

D3001	C-4	IC3001	B-4
D3002	C-4	IC3002	C-4
D3003	B-4	IC3003	C-3
D3004	B-4	IC3004	A-4
D3005	C-4	IC3005	C-3
D3006	B-4	IC3006	B-3
D3007	C-4	IC3007	B-2
D3008	B-4	IC3008	B-1
D3009	C-4	IC3010	H-2
D3010	C-4	IC3011	E-3
D3011	B-4	IC3012	C-1
D3012	A-4	IC3014	D-2
D3013	A-4	IC3015	E-2
D3014	A-4	IC3016	B-2
D3015	C-4	IC3017	E-4
D3016	B-4	IC3018	F-2
D3017	C-4	IC3019	G-2
D3018	B-4	IC3020	G-1
D3019	C-3	IC3021	H-2
D3020	C-3	IC3022	D-3
D3021	C-4	IC3023	B-1
D3022	C-4		
D3023	C-4	Q3001	C-3
D3024	C-4	Q3002	B-3
D3025	C-3	Q3003	A-3
D3026	C-4	Q3004	A-3
D3027	A-1	Q3005	B-3
D3028	A-2	Q3006	B-3
D3035	B-4	Q3007	H-1
D3036	B-4	Q3008	H-1
D3037	C-4	Q3009	A-2
D3038	C-4	Q3010	A-2
D3042	D-3	Q3011	A-2
D3043	D-3	Q3017	D-3
D3044	D-4	Q3019	D-4
D3048	E-4	Q3021	D-4
D3049	E-4	Q3024	E-4
D3050	D-4	Q3025	E-4
D3051	D-4	Q3026	H-2
D3052	E-4	Q3029	D-4
D3053	D-4	Q3030	D-4
D3054	E-4	Q3032	D-4
D3055	E-4		
D3056	E-4		
D3057	E-4		
D3060	D-4		
D3061	D-4		
D3062	D-4		



Q -A SIDE-
SUFFIX: -14

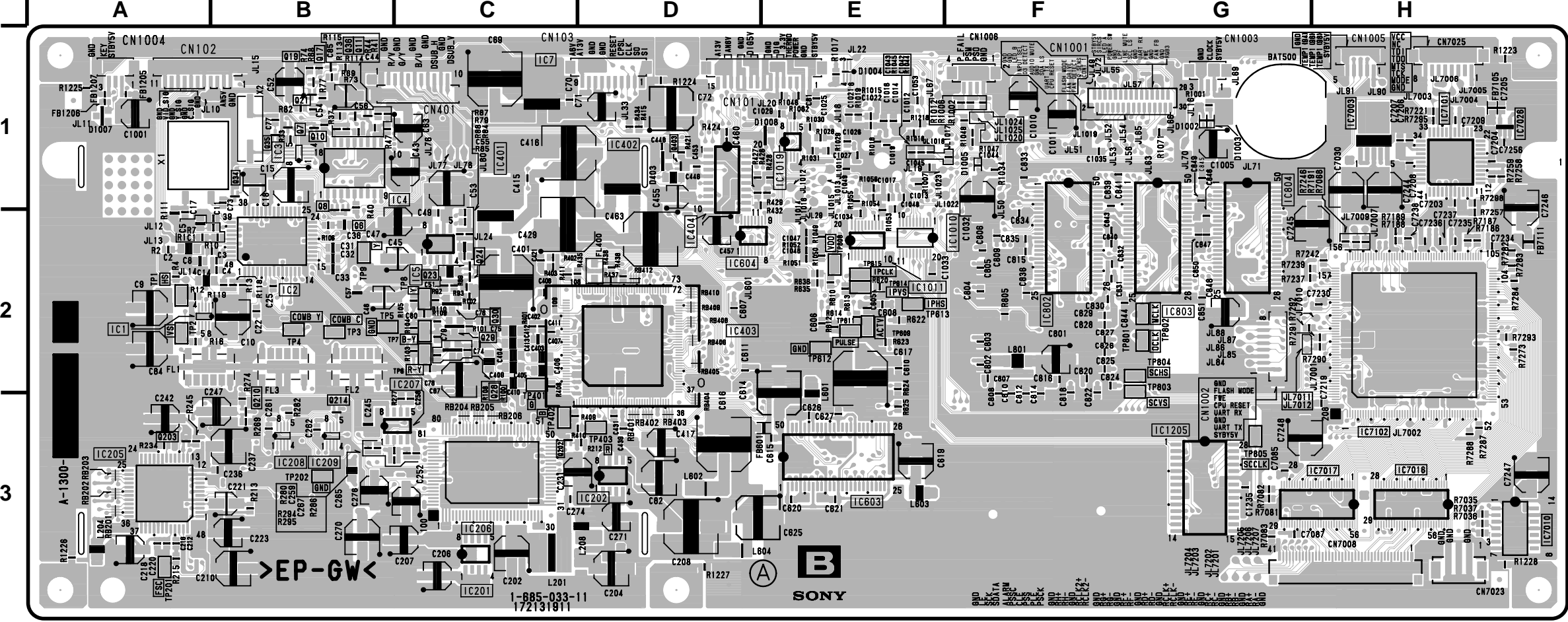


Q -B SIDE-
SUFFIX: -14

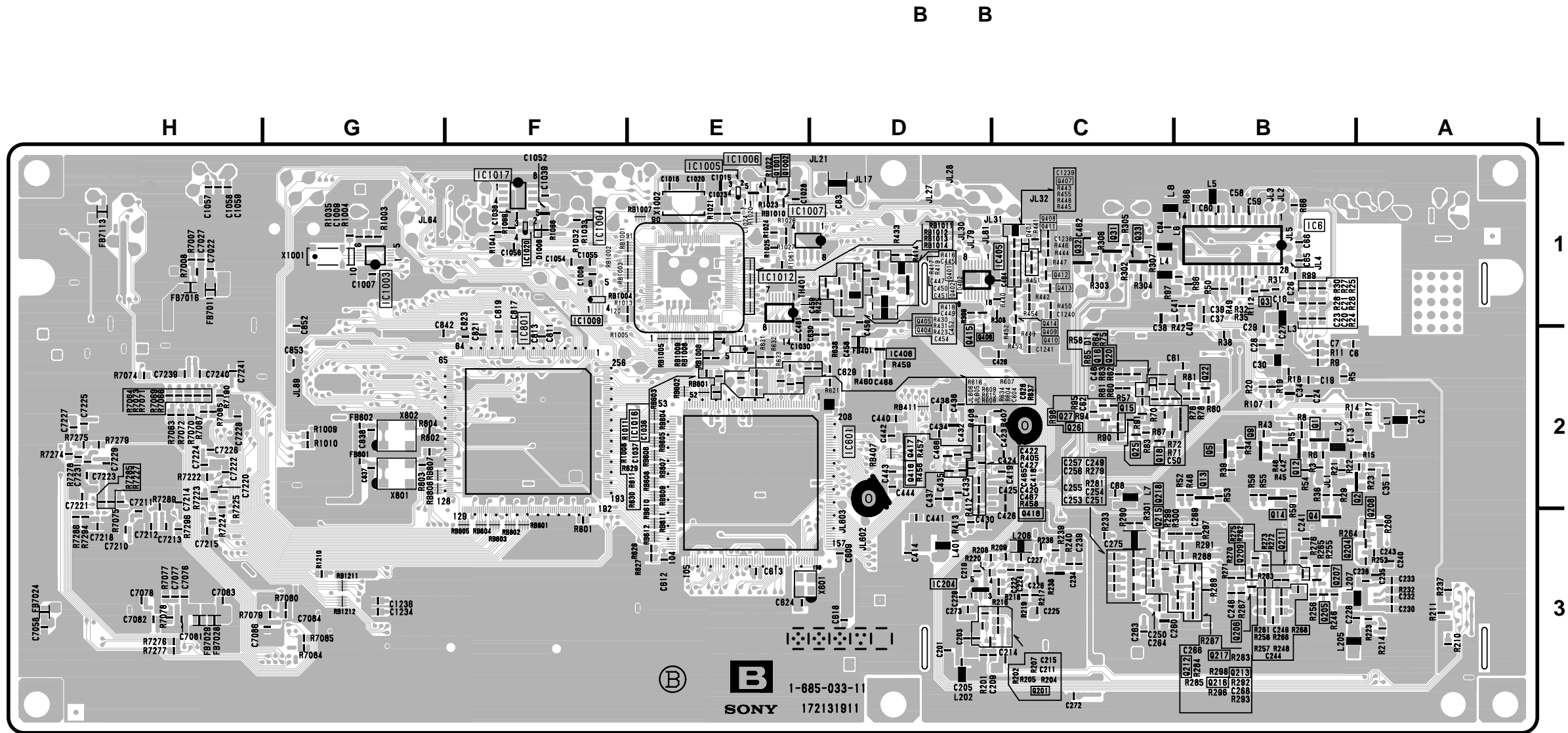
B BOARD

* : B SIDE

D1	* C-2	Q31	* C-1
D401	* C-1	Q32	* C-1
D402	* D-1	Q33	* C-1
D403	D-1	Q34	B-1
D1002	G-1	Q35	B-1
D1003	G-1	Q36	B-1
D1004	E-1	Q201	* C-3
D1005	F-1	Q202	C-3
D1006	* F-1	Q203	A-3
D1007	A-1	Q204	* B-3
D1008	E-1	Q205	* B-3
		Q206	* B-3
		Q207	* B-3
		Q208	* A-3
		Q209	* B-3
		Q210	B-3
		Q211	* B-3
		Q212	* B-3
		Q213	* B-3
		Q214	B-3
		Q215	* C-3
		Q216	* B-3
		Q217	* B-3
		Q218	* C-2
		Q401	* D-1
		Q402	* D-1
		Q403	* D-1
		Q404	* D-1
		Q405	* D-1
		Q406	* D-1
		Q407	* C-1
		Q408	* C-1
		Q409	* C-2
		Q410	* C-2
		Q411	* C-1
		Q412	* C-1
		Q413	* C-1
		Q414	* C-1
		Q415	* D-1
		Q416	* D-2
		Q417	* D-2
		Q418	* C-2
		Q1001	* E-1
		Q1002	* E-1
IC1	A-2	TP1	A-2
IC2	B-2	TP2	A-2
IC3	B-1	TP3	B-2
IC4	C-1	TP4	B-2
IC5	C-2	TP5	B-2
IC6	* B-1	TP6	C-2
IC7	C-1	TP7	C-2
IC201	C-3	TP8	C-2
IC202	D-3	TP9	B-2
IC204	* D-3	TP201	A-3
IC205	A-3	TP202	B-3
IC206	C-3	TP401	C-2
IC207	C-3	TP402	C-3
IC208	B-3	TP403	D-3
IC209	B-3	TP608	E-2
IC401	C-1	TP609	E-2
IC402	D-1	TP611	E-2
IC403	D-2	TP612	E-2
IC404	D-1	TP613	E-2
IC405	* C-1	TP614	E-2
IC406	* D-2	TP615	E-2
IC601	* D-2	TP801	G-2
IC603	E-3	TP802	G-2
IC604	D-2	TP803	G-2
IC801	* F-2	TP804	G-2
IC802	F-2	TP805	G-3
IC803	G-2		
IC804	G-2		
IC1003	* G-1		
IC1004	* F-1		
IC1005	* E-1		
IC1006	* E-1		
IC1007	* E-1		
IC1009	* F-1		
IC1010	E-2		
IC1011	E-2		
IC1012	* E-1		
IC1016	* E-2		
IC1017	* F-1		
IC1019	E-1		
IC1020	* F-1		
IC1205	G-3		
IC7003	H-1		
IC7010	H-3		
IC7016	H-3		
IC7017	H-3		
IC7026	H-1		
IC7101	H-1		
IC7102	H-2		
Q1	* B-2		
Q2	* B-2		
Q3	* B-1		
Q4	* B-3		
Q5	* B-2		
Q6	B-2		
Q7	B-1		
Q8	B-2		
Q9	* B-2		
Q10	B-1		
Q11	B-1		
Q12	* B-2		
Q13	* B-2		
Q14	* B-2		
Q15	* C-2		
Q16	* C-2		
Q17	B-1		
Q18	* C-2		
Q19	B-1		
Q20	* C-2		
Q21	B-1		
Q22	* B-2		
Q23	C-2		
Q24	C-2		
Q25	* C-2		
Q26	* C-2		
Q27	* C-2		
Q28	C-2		
Q29	C-2		
Q30	C-2		



B -A SIDE-
SUFFIX: -11



B -B SIDE-
SUFFIX: -11

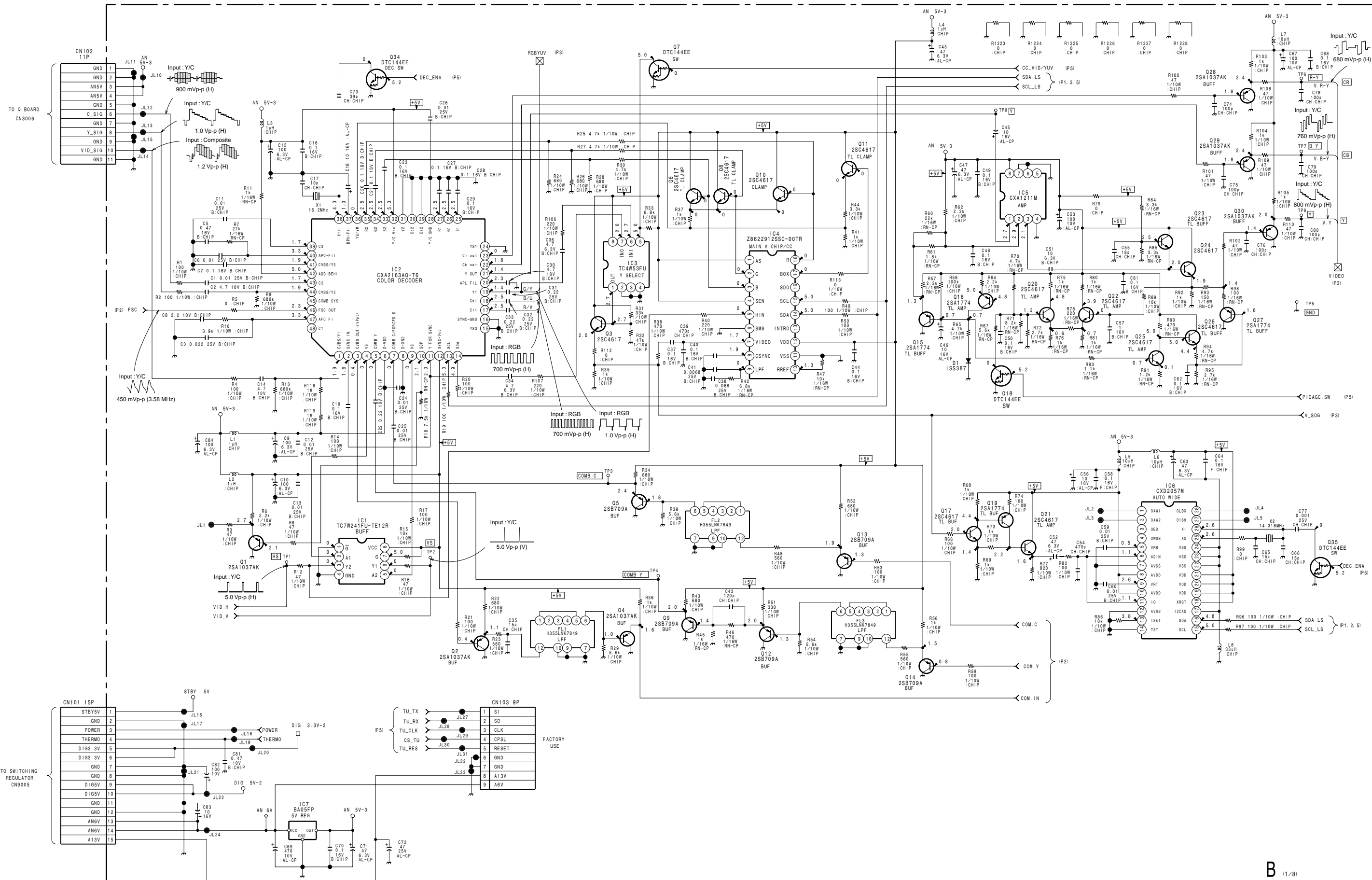
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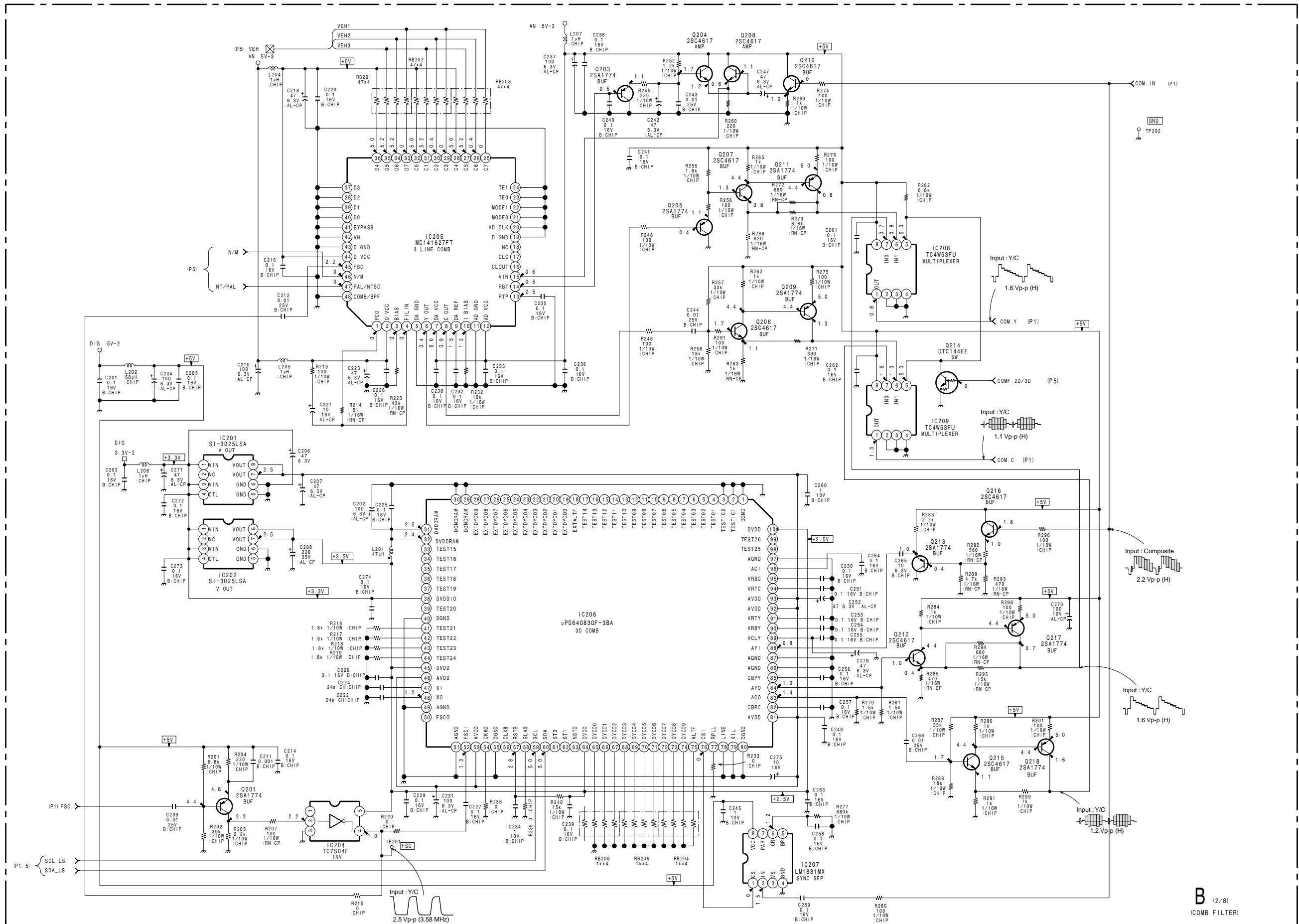
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3

4

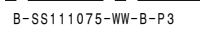
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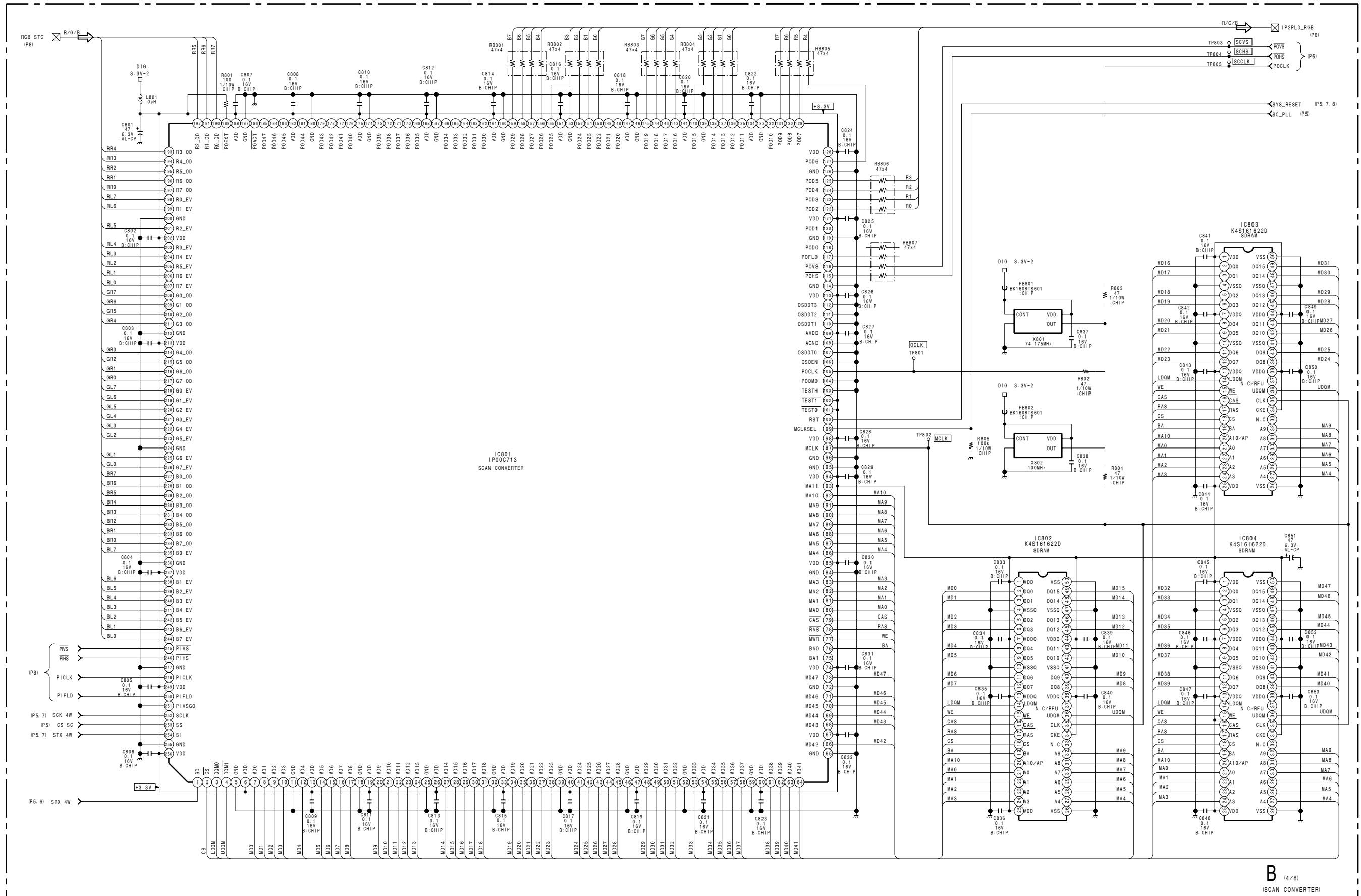


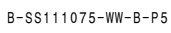


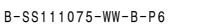
B (2/8)
(COMB FILTER)

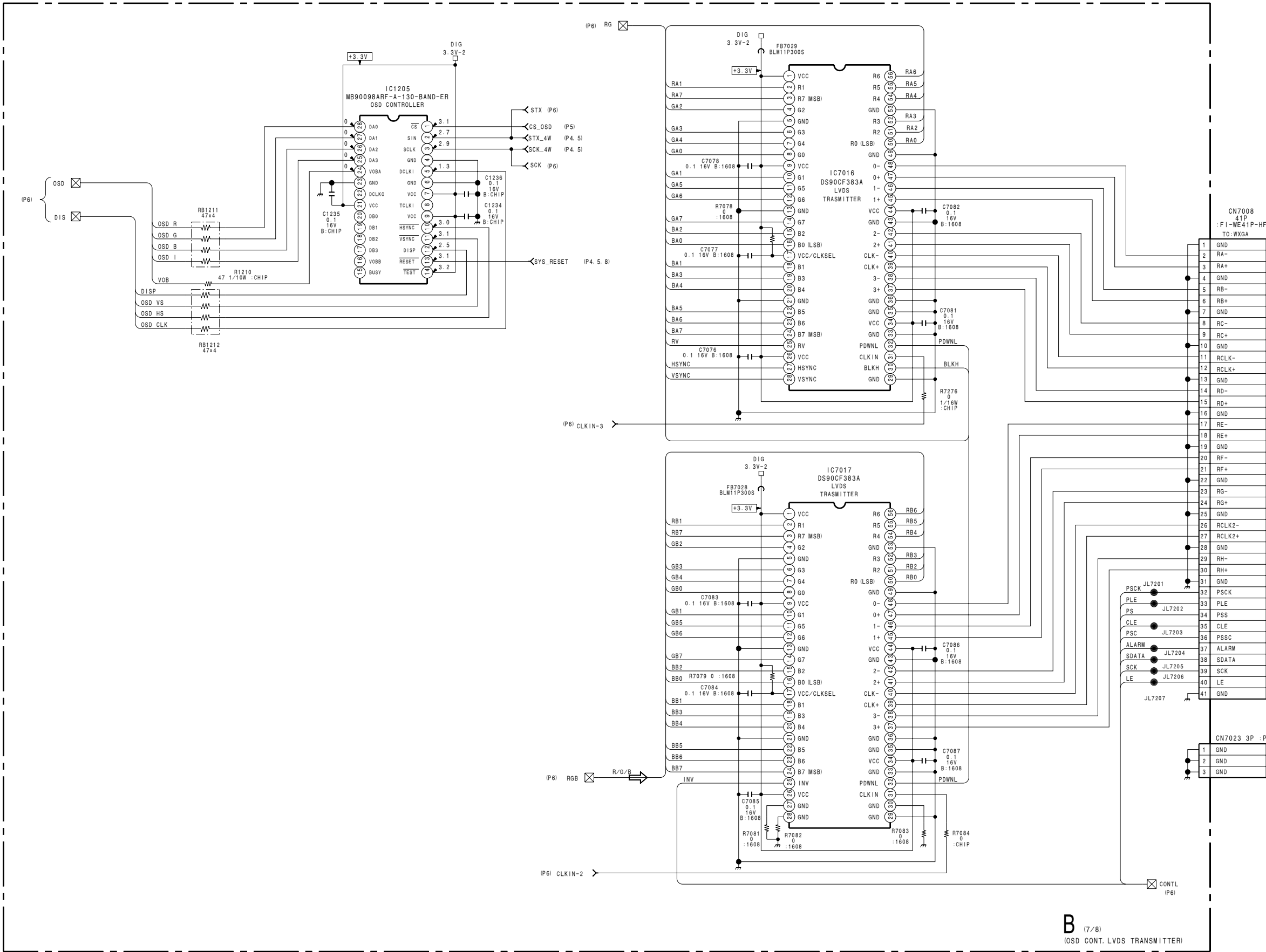
B-SS111075-WW-B-P2





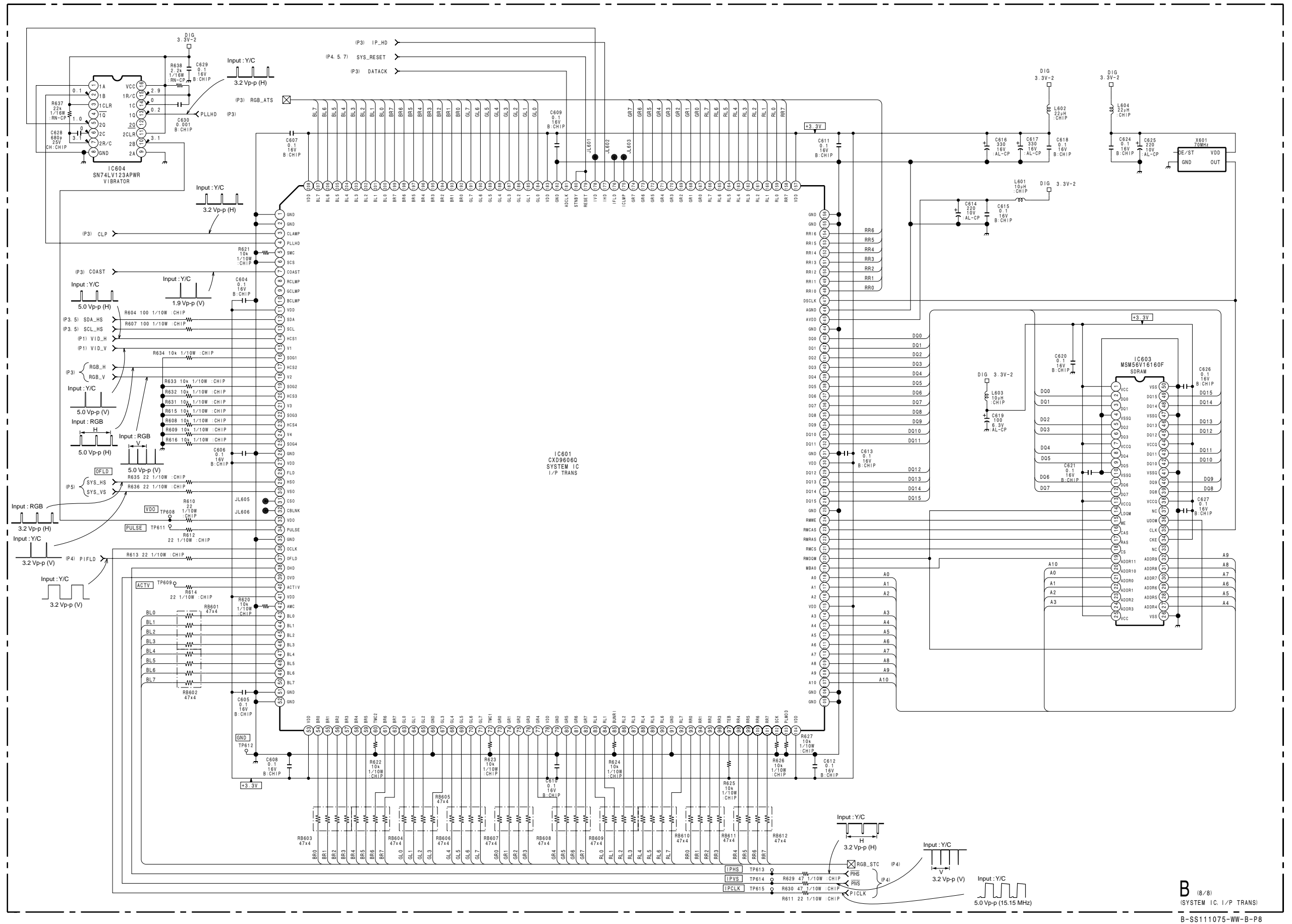




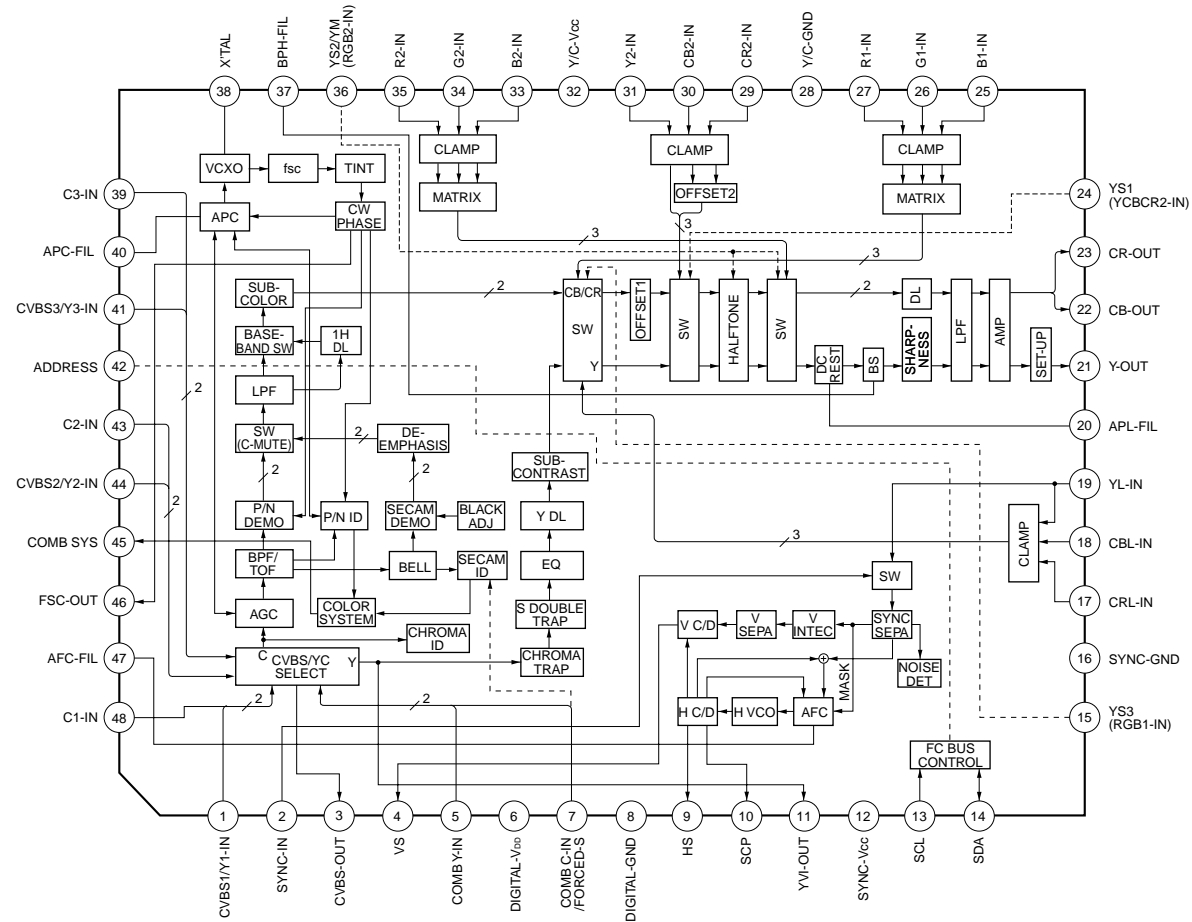
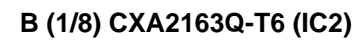


B (7/8)
(OSD CONT. LVDS TRANSMITTER)

B-SS111075-WW-B-P7

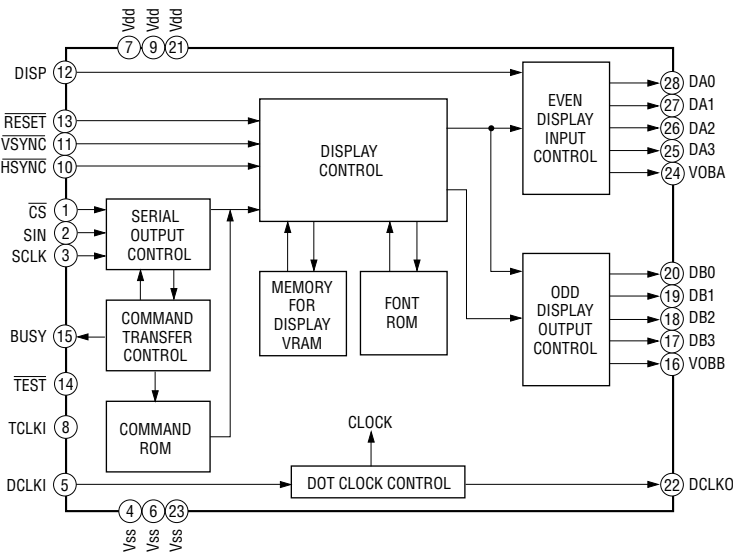


B B

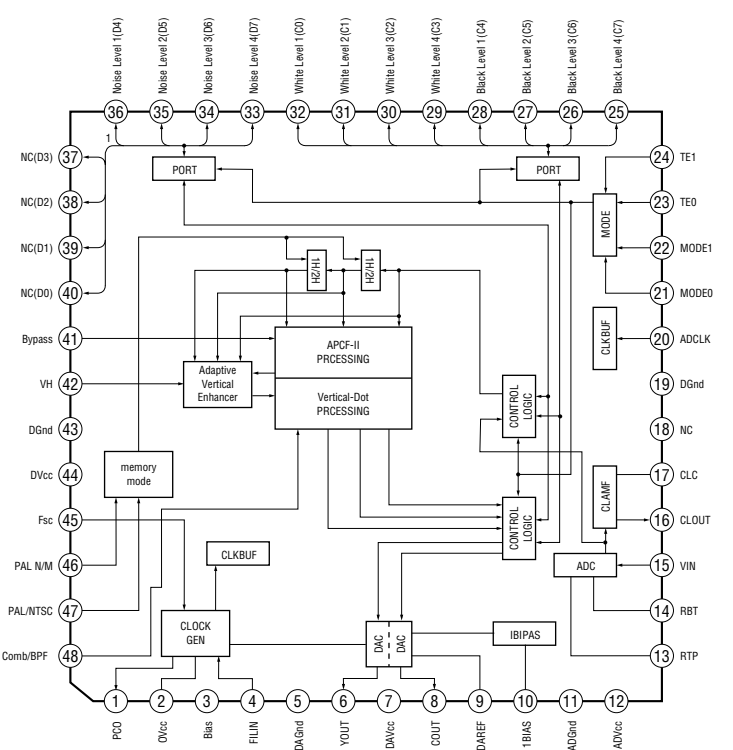


The diagram shows a video signal processor circuit. It has several inputs: COMPOSITE SYNC (pin 1), COMPOSITE VIDEO (pin 2), RESET (pin 6), SUPPLY VOLTAGE (pin 8), ODD/EVEN FILED INDEX (pin 7), and BURST GATE/BACK PORCH CLAMP (pin 5). The circuit includes a counter (CLR, CLK, Q), a flip-flop (S, R, Q), and an oscillator (+1, OSC). It also features comparators (V, V1, V2), a capacitor charge current block, and various passive components like resistors and capacitors.

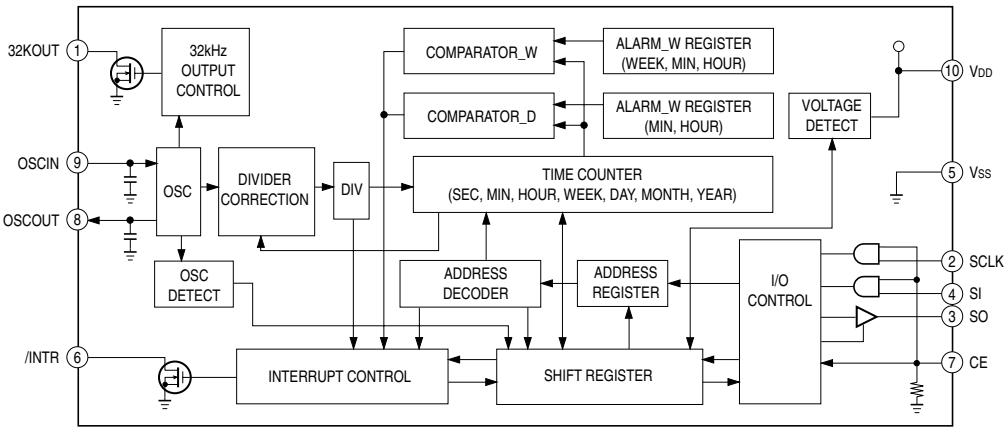
B (7/8) MB90098ARF-A-130-BAND-ER (IC1205)



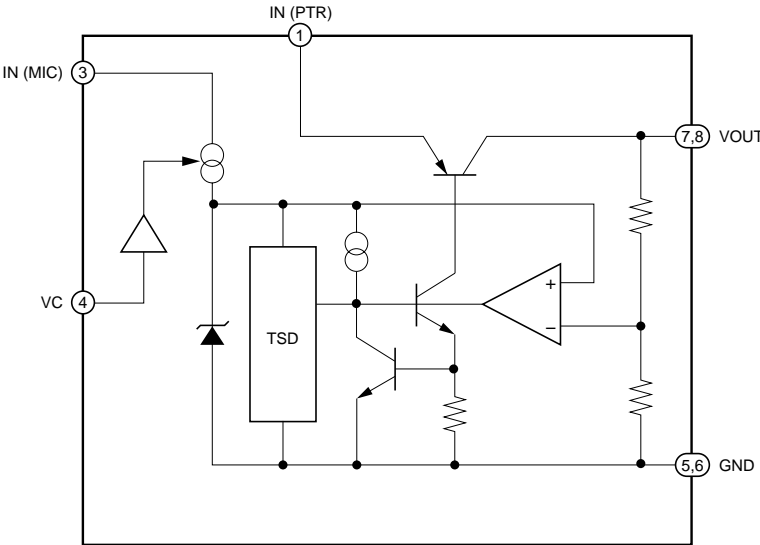
B (2/8) MC141627FT (IC205)



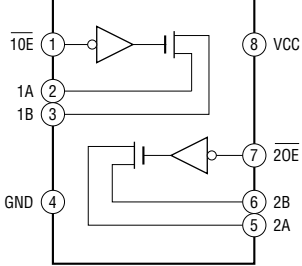
B (5/8) RS5C348A (IC1003)



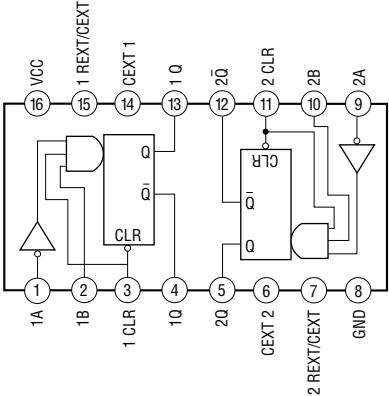
B (2/8) SI-3025LSA (IC201, IC202)



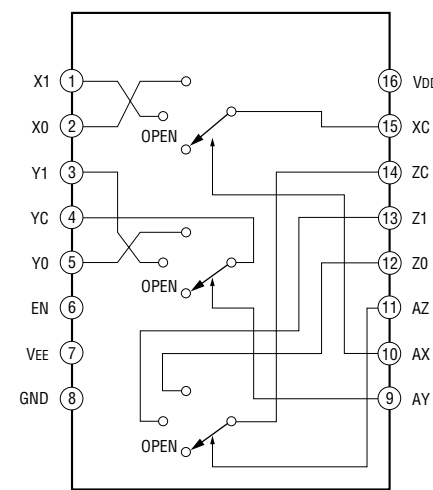
B (5/8) SN74CBTD3306 (IC1019)



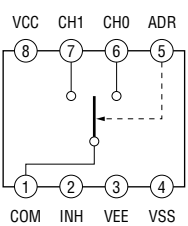
B (8/8) SN74LV123APWR (IC604)



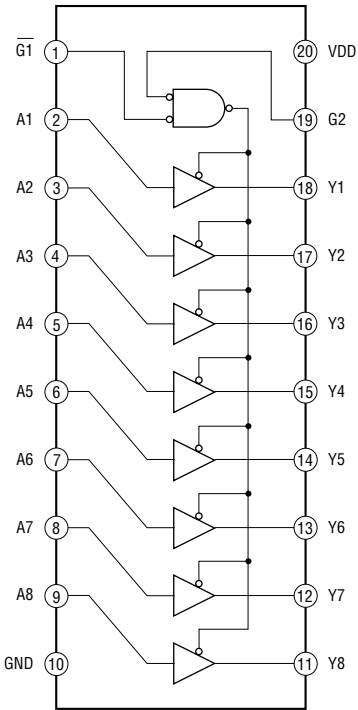
B (3/8) SN74LV4053APWR (IC405)



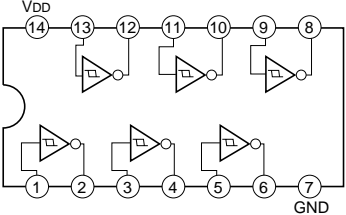
B (1/8), (2/8) TC4W53FU (IC3, IC208, IC209)



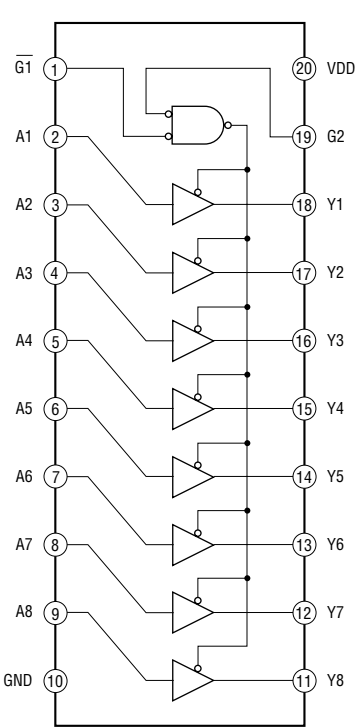
B (5/8) TC74VHC541FT (IC1010)



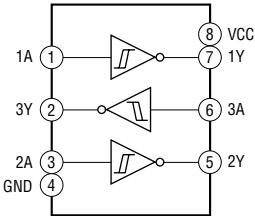
B (5/8) TC74VHCT14AFT (IC1012)



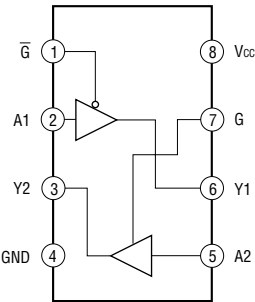
B (5/8) TC74VHCT541AFT (IC1011)



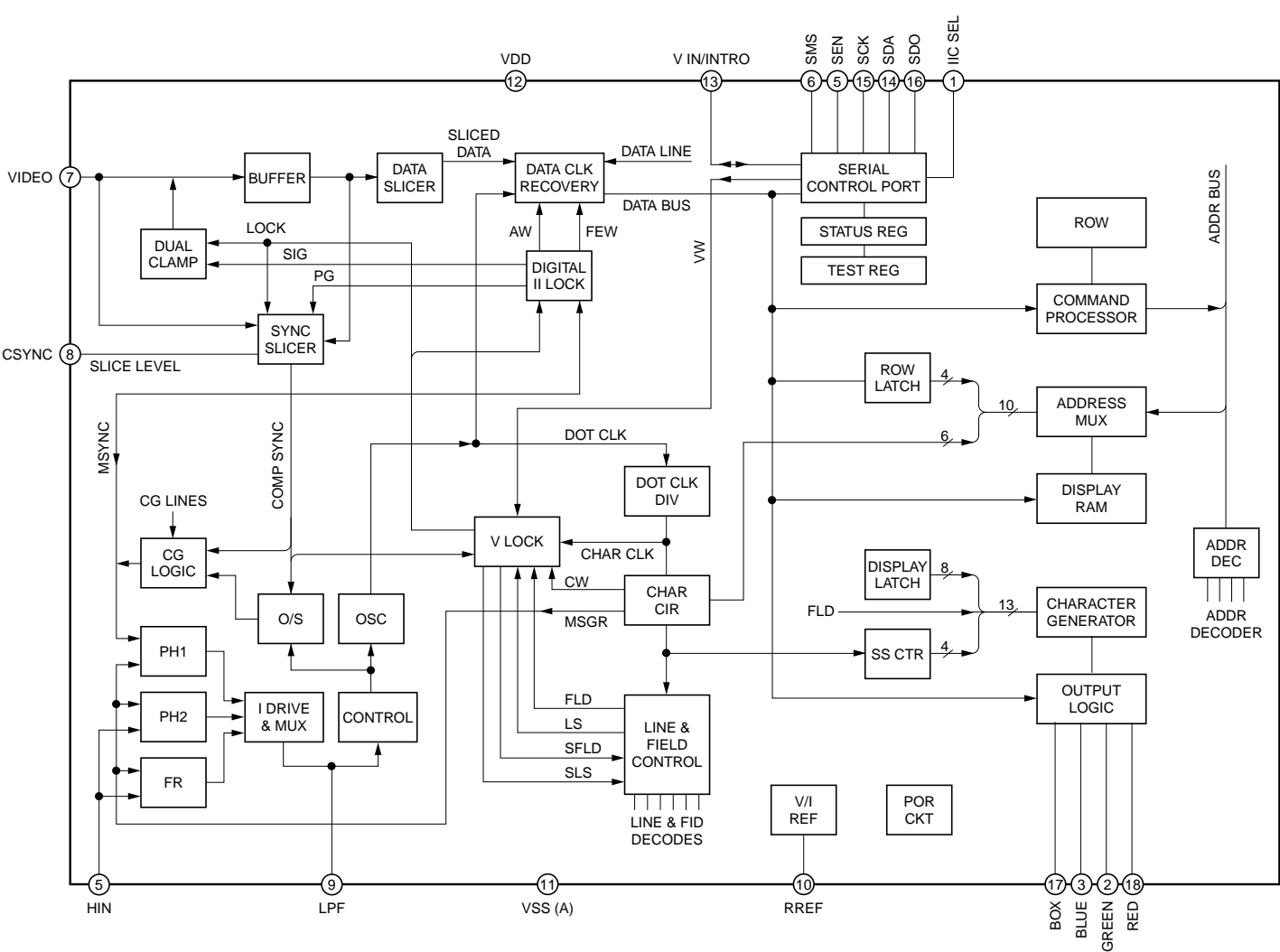
B (5/8) TC7W14FU (IC1016)



B (1/8), (5/8) TC7W241FU-TE12R (IC1, IC1009)

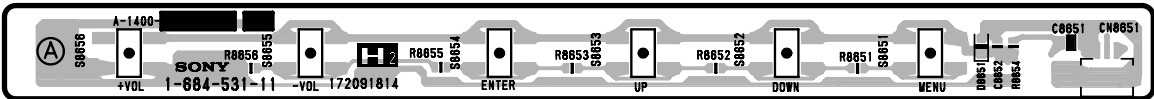


B (1/8) Z8622912SSC-00TR (IC4)

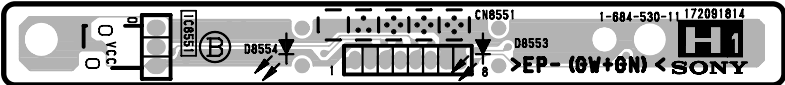




H1 -A SIDE-
SUFFIX: -11



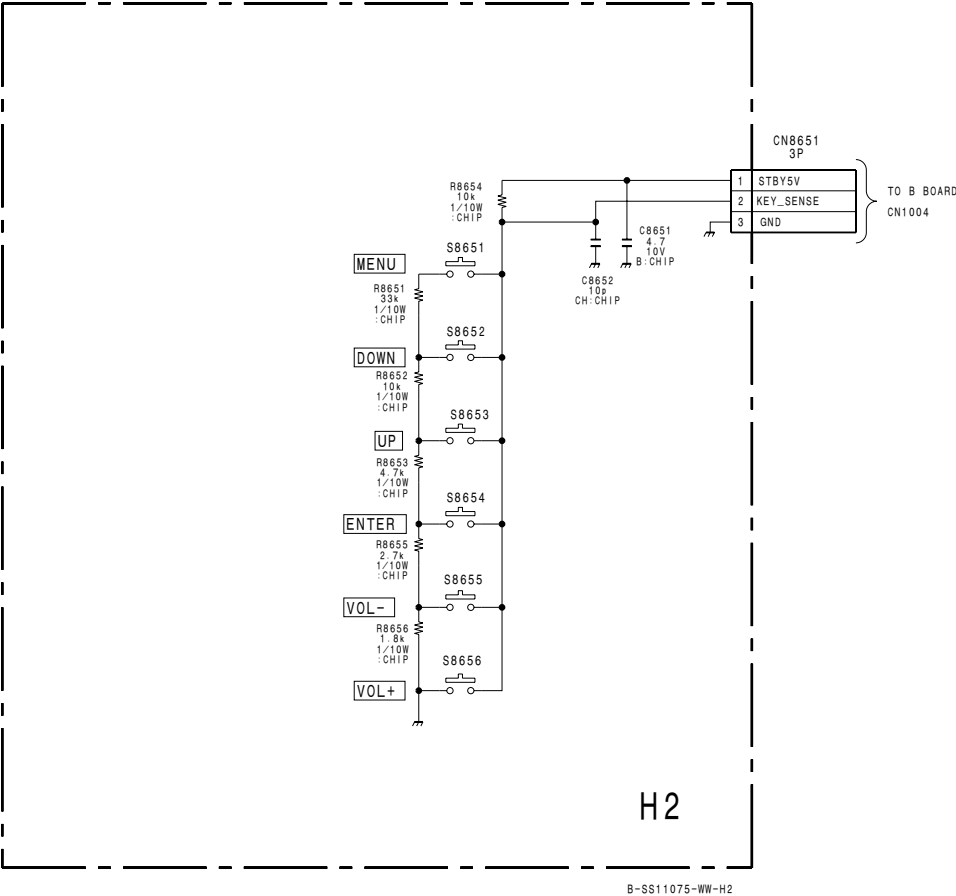
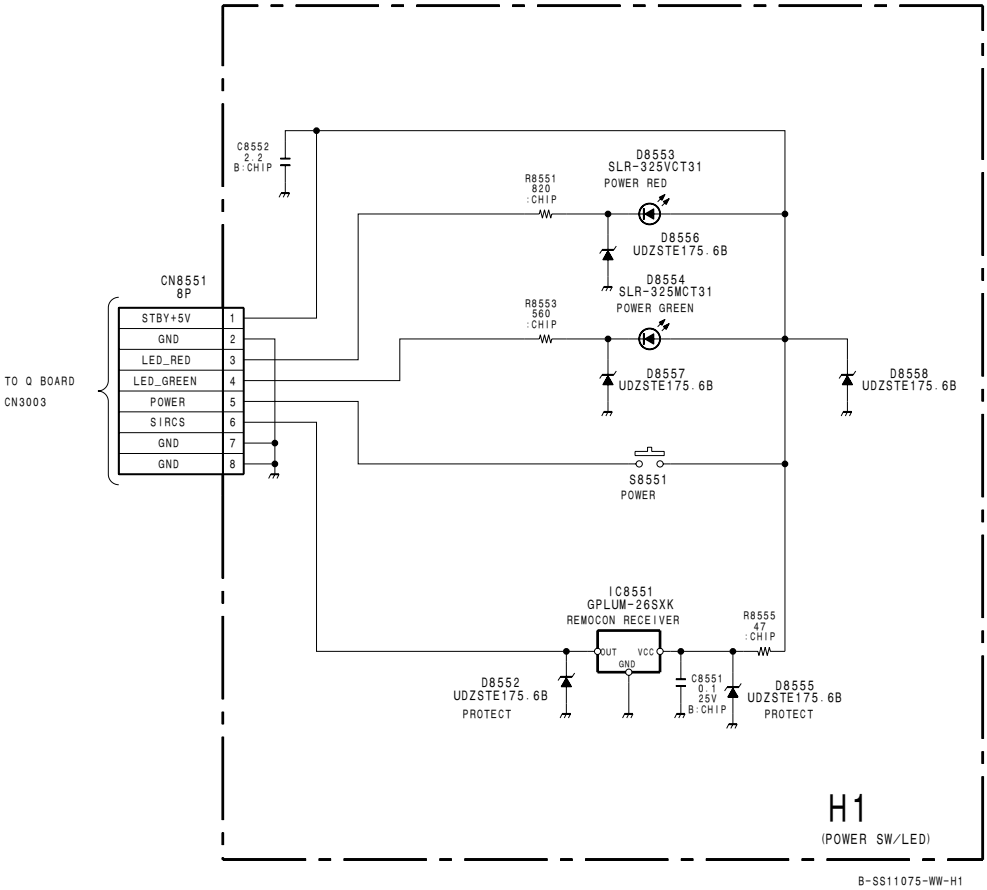
H2 -A SIDE-
SUFFIX: -11

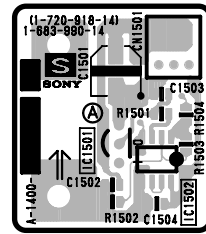


H1 -B SIDE-
SUFFIX: -11

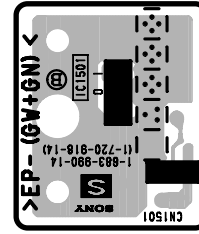


H2 -B SIDE-
SUFFIX: -11

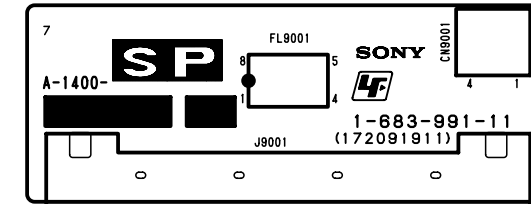




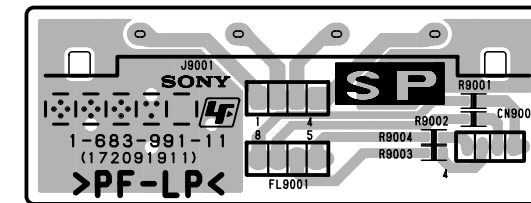
S -A SIDE-
SUFFIX: -14



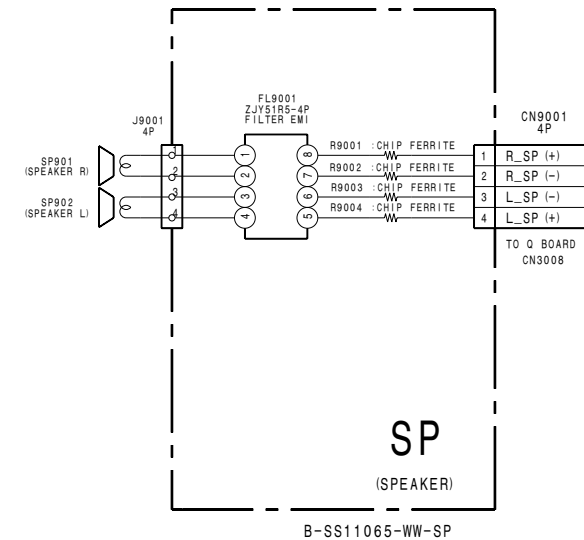
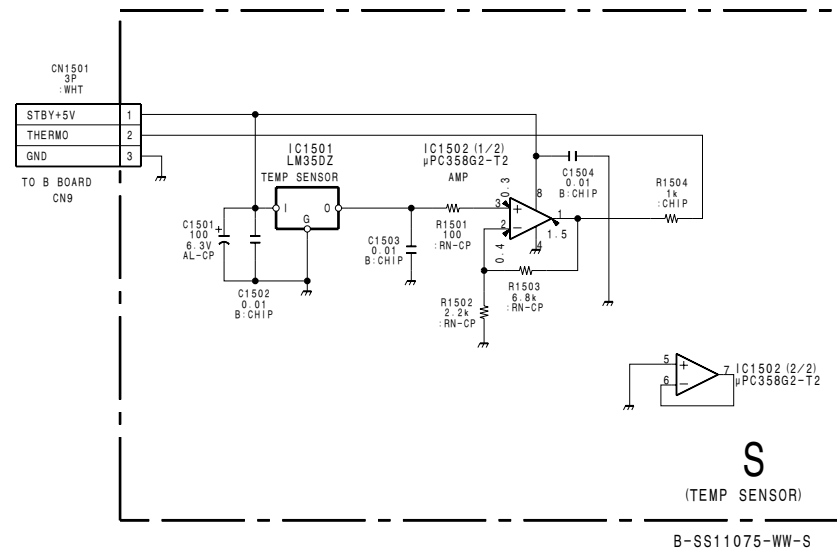
S -B SIDE-
SUFFIX: -14



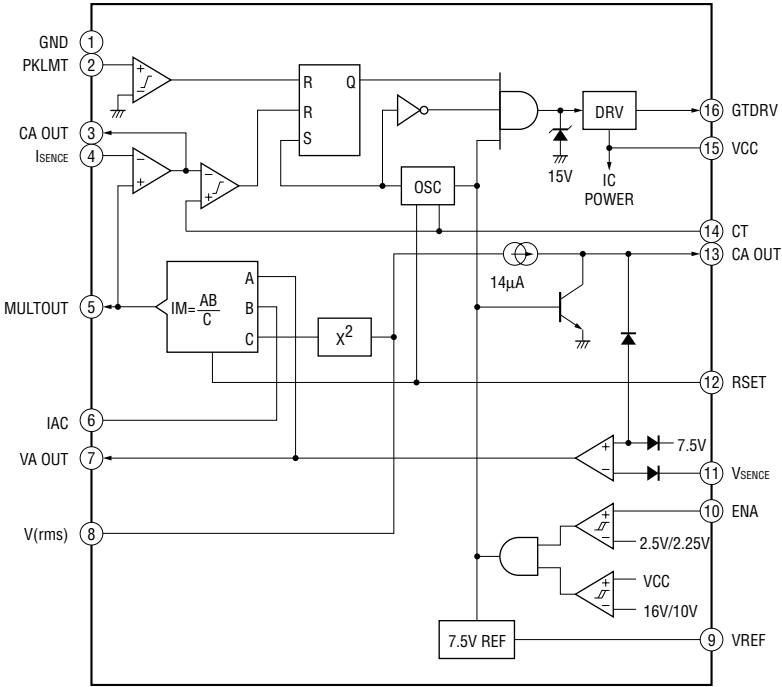
SP -A SIDE-
SUFFIX: -11



SP -B SIDE-
SUFFIX: -11



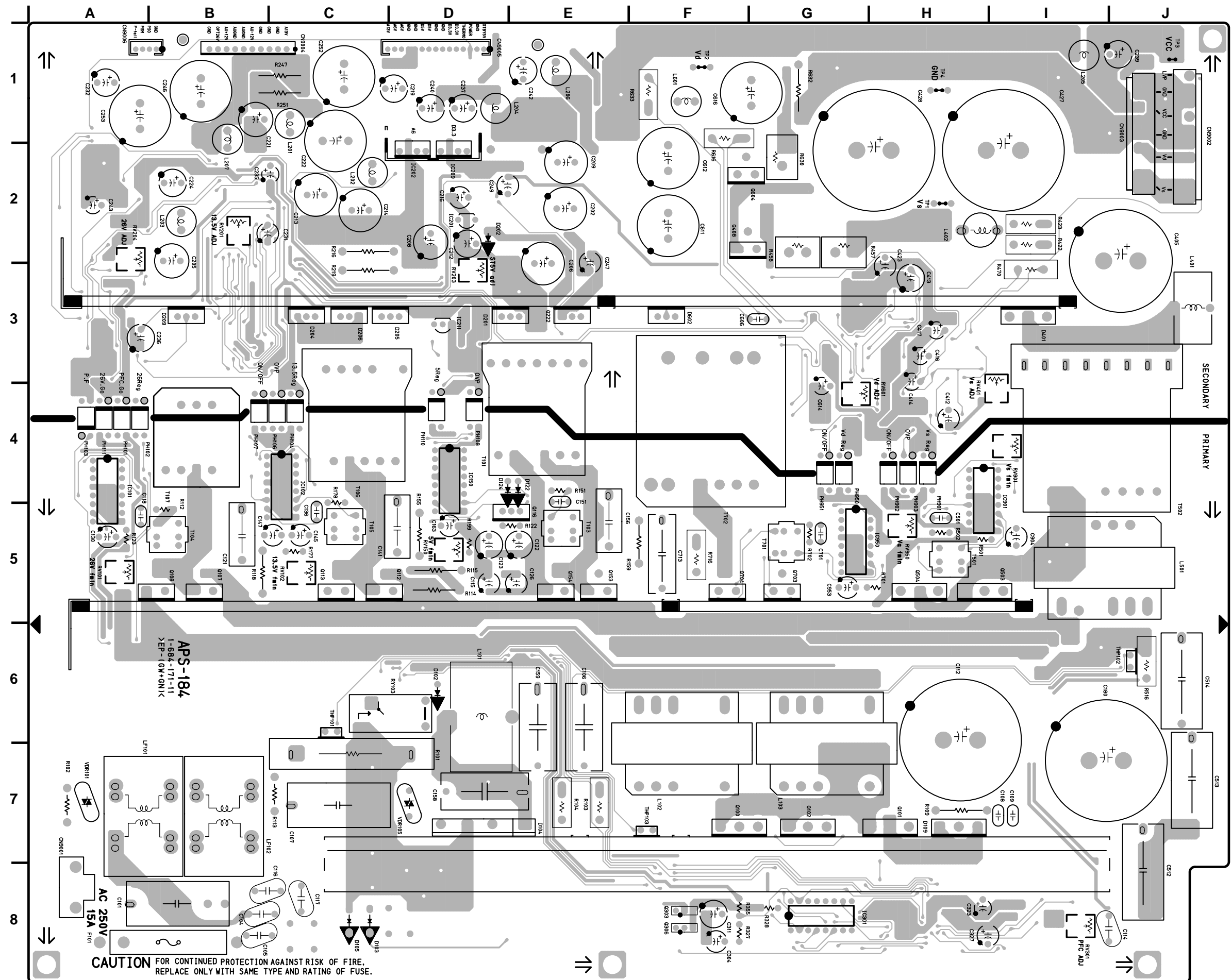
M (1/4) TK83854D (IC301)



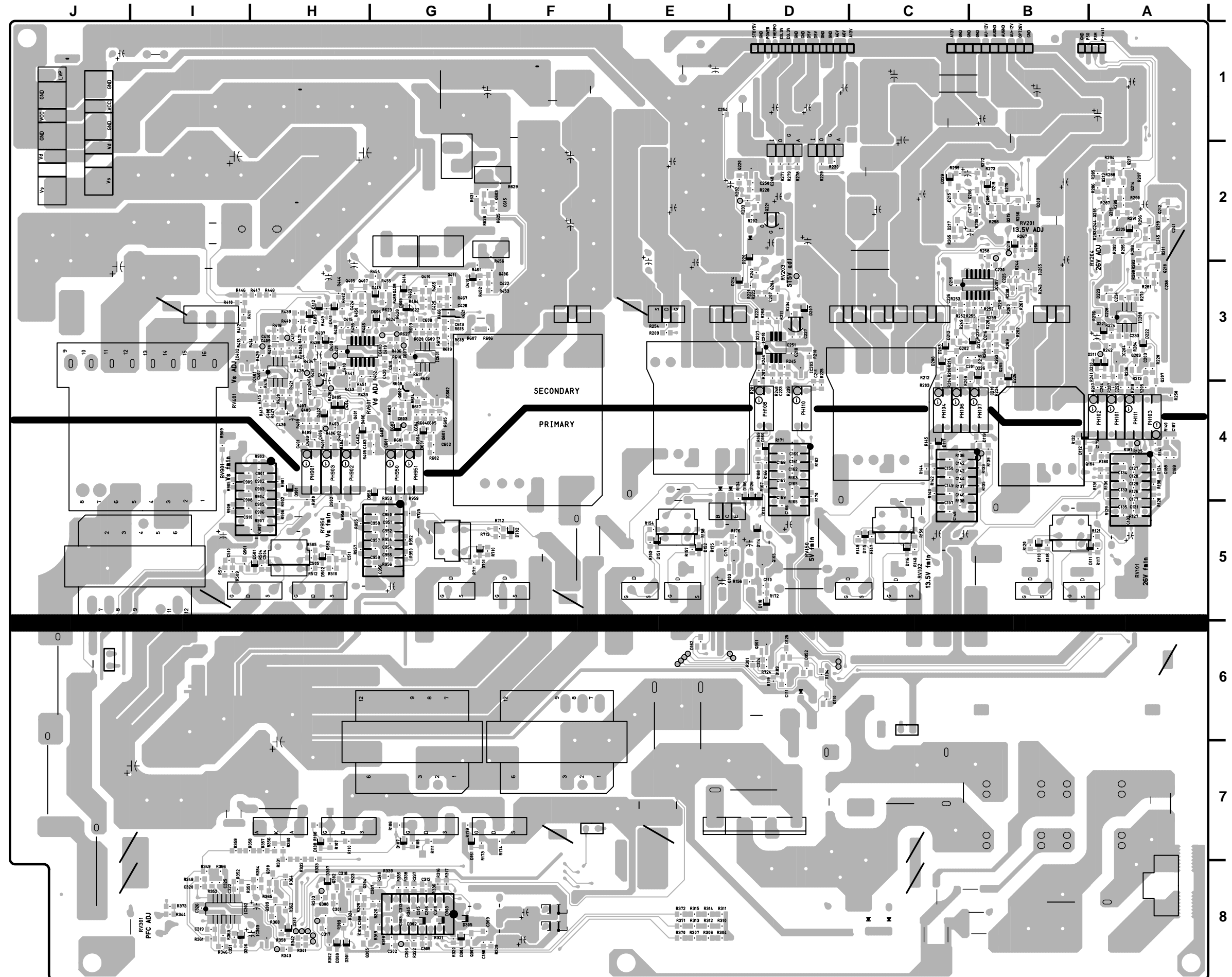
APS-184 BOARD

* : B SIDE

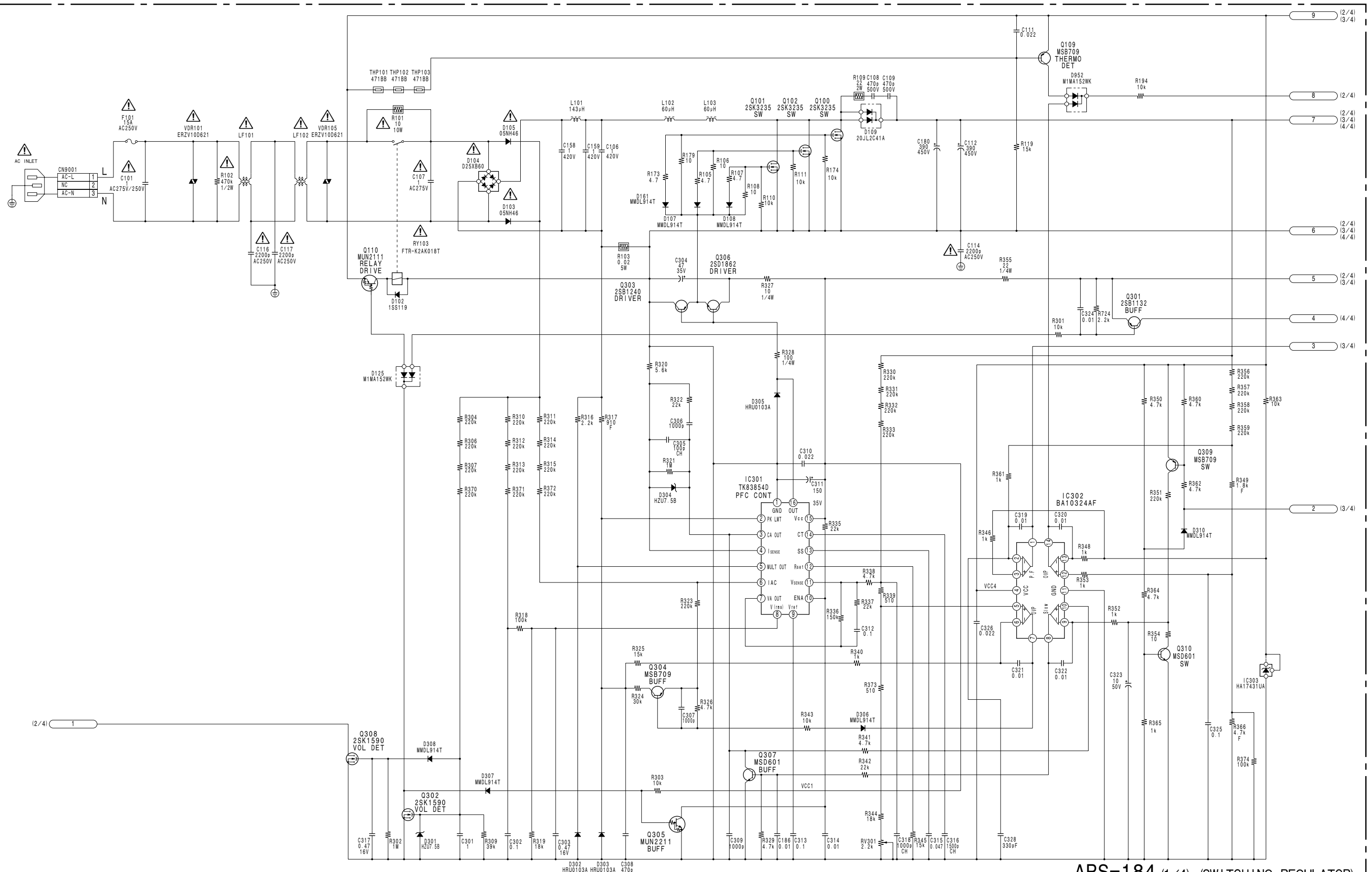
D102	D-6	D405	* H-4	Q206	* C-2
D103	C-8	D406	* H-4	Q207	* A-3
D104	D-7	D407	* H-3	Q208	* B-2
D105	C-8	D408	* H-3	Q209	* B-2
D106	* D-4	D409	* H-3	Q210	* A-3
D107	* G-7	D410	* G-3	Q211	* A-2
D108	* H-7	D411	* H-3	Q212	* A-2
D109	H-7	D412	* H-3	Q213	* A-2
D110	* B-5	D413	* G-3	Q214	* A-2
D111	* A-5	D414	* G-3	Q215	* A-2
D112	* B-4	D501	* H-5	Q216	* A-2
D113	* D-4	D502	* H-5	Q217	* A-2
D114	* D-5	D601	* G-4	Q218	* A-2
D115	* C-5	D602	F-3	Q219	* B-2
D116	* C-5	D603	* G-4	Q220	* D-2
D117	* C-4	D604	* G-4	Q221	* D-2
D118	* D-5	D605	* G-3	Q222	E-3
D119	* C-4	D606	* H-3	Q301	* D-6
D122	E-4	D701	* G-5	Q302	* H-8
D124	D-4	D702	* F-5	Q303	* F-8
D125	* D-6	D901	* H-4	Q304	* H-8
D126	* D-4	D902	* H-4	Q305	* H-8
D151	* E-5	D950	* G-4	Q306	* F-8
D152	* E-5	D952	* D-6	Q307	* G-8
D160	* D-4			Q308	* H-8
D161	* G-7	IC101	A-4	Q309	* H-8
D162	* E-6	IC102	C-4	Q310	* H-7
D201	D-3	IC150	D-4	Q401	* H-4
D202	D-2	IC201	D-2	Q402	* G-4
D203	* C-3	IC202	D-2	Q403	* H-4
D204	C-3	IC203	* D-3	Q404	* H-3
D205	C-3	IC204	* A-3	Q405	* H-3
D206	C-3	IC205	* B-3	Q406	* F-3
D207	* D-3	IC207	* C-3	Q407	* H-3
D208	* C-3	IC208	* A-3	Q408	* G-2
D209	B-3	IC209	D-2	Q409	* G-3
D210	* A-3	IC210	* D-3	Q410	* G-3
D211	* A-3	IC211	D-3	Q411	* G-3
D212	* C-3	IC301	G-8	Q501	* I-5
D213	* C-3	IC302	* I-8	Q502	* H-5
D214	* D-3	IC303	* H-8	Q503	H-5
D215	* C-2	IC401	* H-3	Q504	H-5
D216	* B-3	IC402	* I-3	Q601	* G-4
D217	* C-2	IC403	* H-3	Q602	* G-4
D218	* B-2	IC601	* G-3	Q603	* F-2
D219	* B-2	IC602	* G-4	Q604	F-2
D220	* D-2	IC901	I-5	Q703	G-5
D221	* A-3	IC950	G-5	Q704	F-5
D222	* A-3				
D223	* A-3	Q100	F-7	RV101	A-5
D225	* A-2	Q101	H-7	RV102	C-5
D226	* C-3	Q102	G-7	RV103	C-6
D227	* D-3	Q103	* E-5	RV150	D-5
D228	* B-3	Q104	* A-4	RV201	B-2
D229	* C-2	Q105	* D-5	RV203	D-3
D301	* H-8	Q107	B-5	RV204	A-2
D302	* G-8	Q108	B-5	RV301	I-8
D303	* G-8	Q109	* D-6	RV401	I-4
D304	* G-8	Q110	* D-6	RV601	G-4
D305	* G-8	Q112	C-5	RV901	I-5
D306	* I-8	Q113	C-5	RV950	H-5
D307	* H-8	Q116	E-5		
D308	* H-8	Q153	E-5	TP1	H-2
D310	* H-8	Q154	E-5	TP2	F-1
D401	I-3	Q202	* C-3	TP3	J-1
D402	* H-4	Q203	* A-3	TP4	H-1
D403	* H-4	Q204	* D-3		
D404	* H-4	Q205	* B-3		



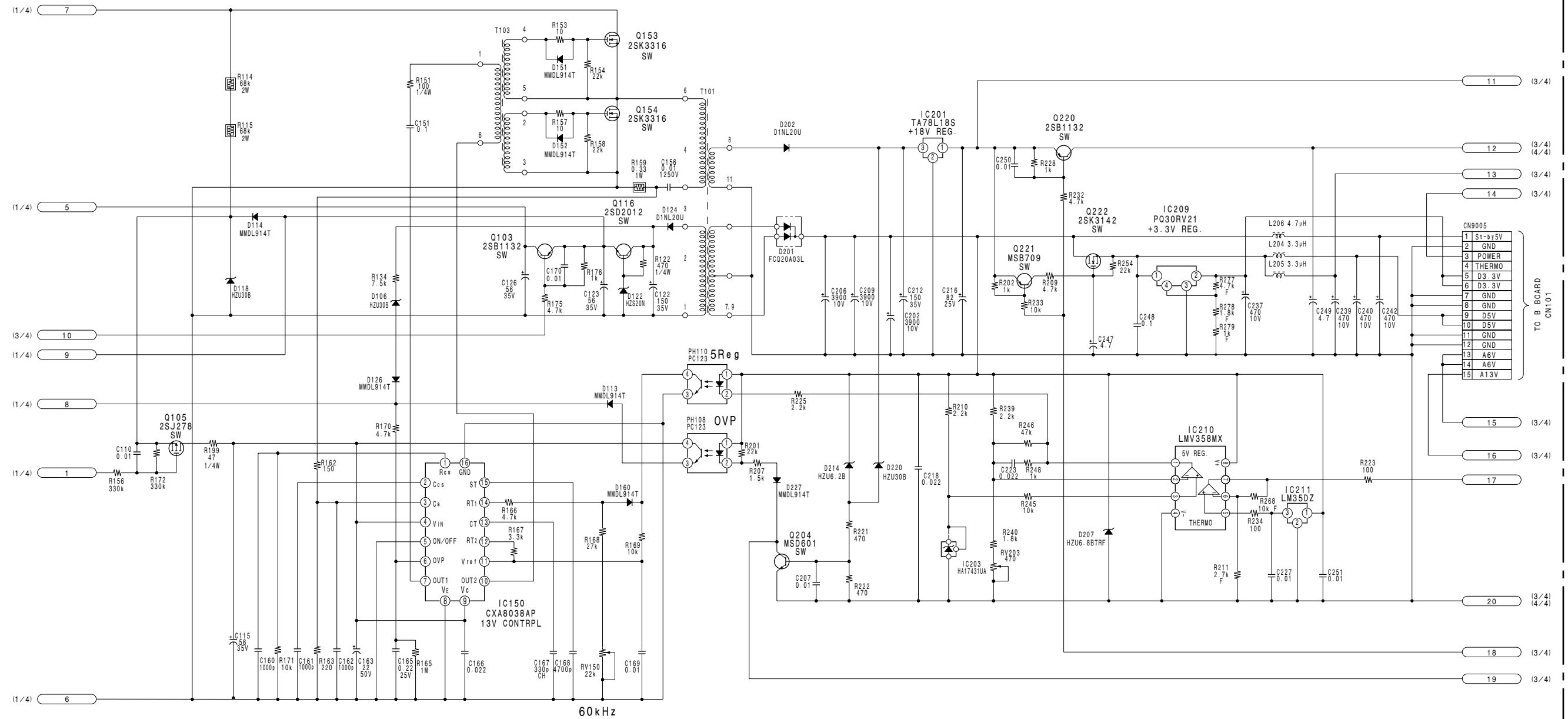
APS-184
-A SIDE-
SUFFIX: -11



APS-184
-B SIDE-
SUFFIX: -11

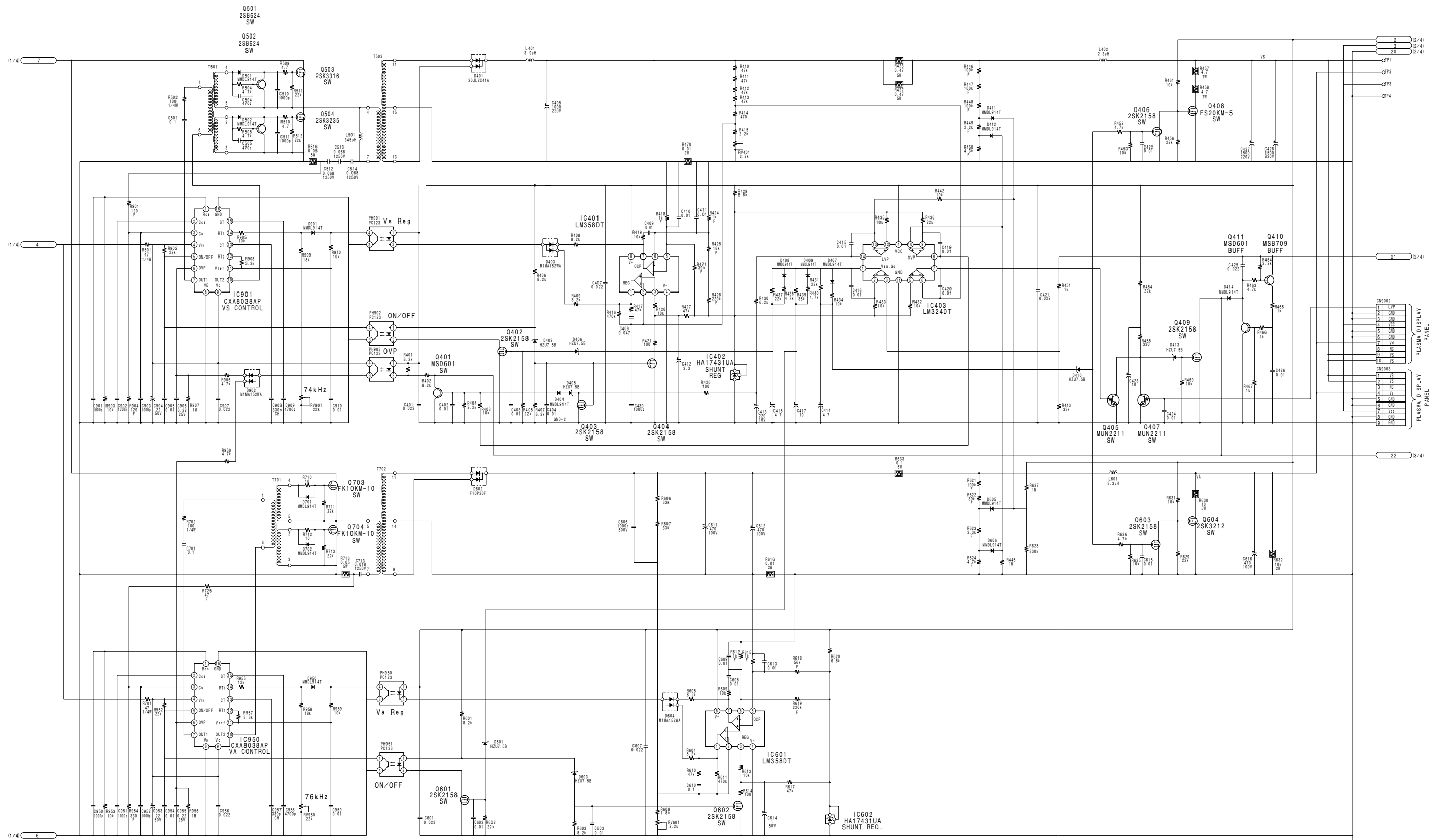


APS-184 (1/4) (SWITCHING REGULATOR)



APS-184 (2/4) (SWITCHING REGULATOR)





SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer :

Check the metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA. Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

